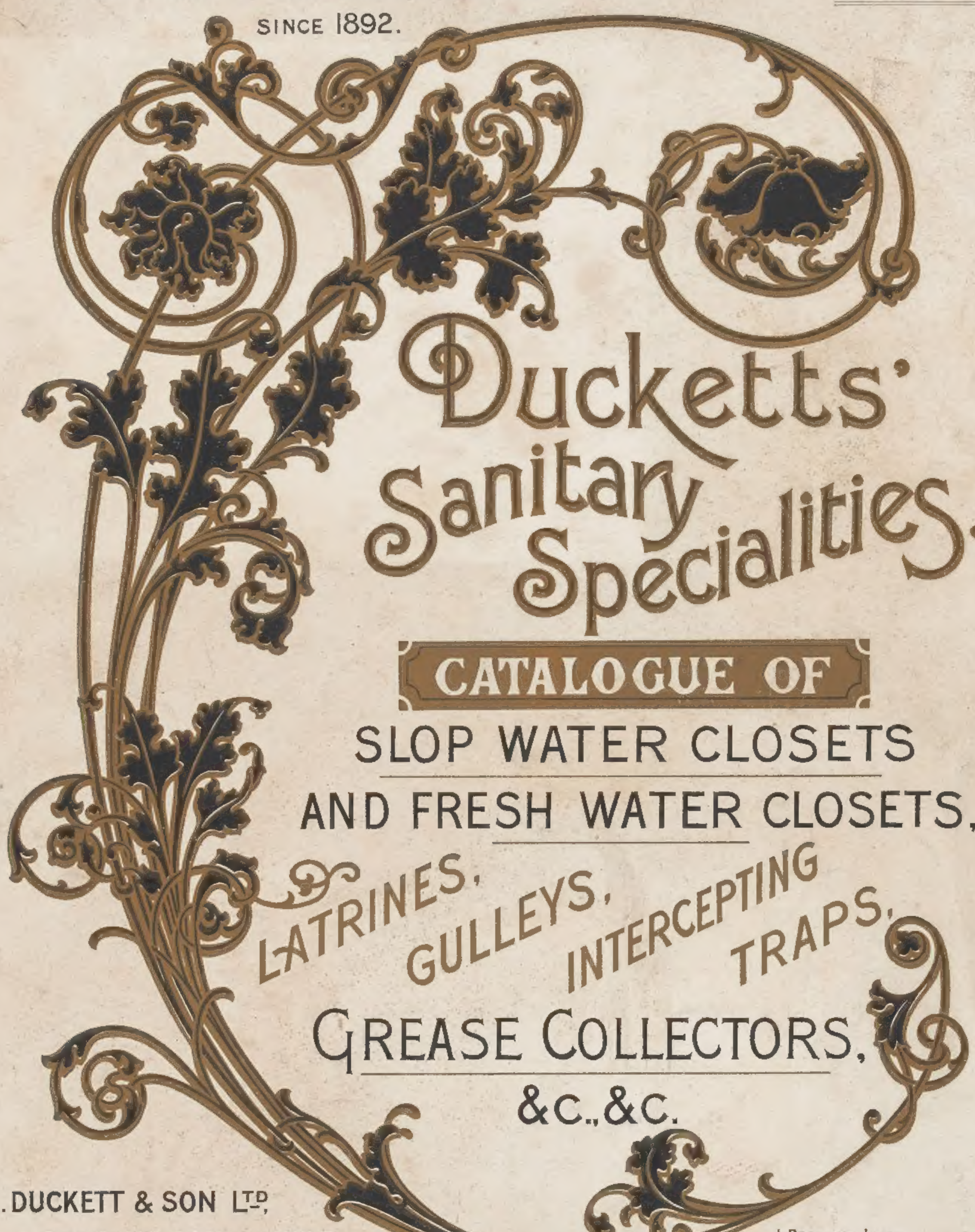


AWARDED 5 GOLD, SILVER & BRONZE MEDALS,  
IN ADDITION TO 3 CERTIFICATES OF MERIT  
SINCE 1892.

1898.



# Duckett's Sanitary Specialities.

CATALOGUE OF

SLOP WATER CLOSETS  
AND FRESH WATER CLOSETS,

LATRINES,  
GULLEYS,  
INTERCEPTING  
TRAPS,

GREASE COLLECTORS,  
&c., &c.

J. DUCKETT & SON LTD,

BURNLEY, LANCASHIRE.

Manufacturers of Sanitary Ware.

J. BROADLEY, LITHO.,

Gutenberg Works,  
ACCRINGTON.



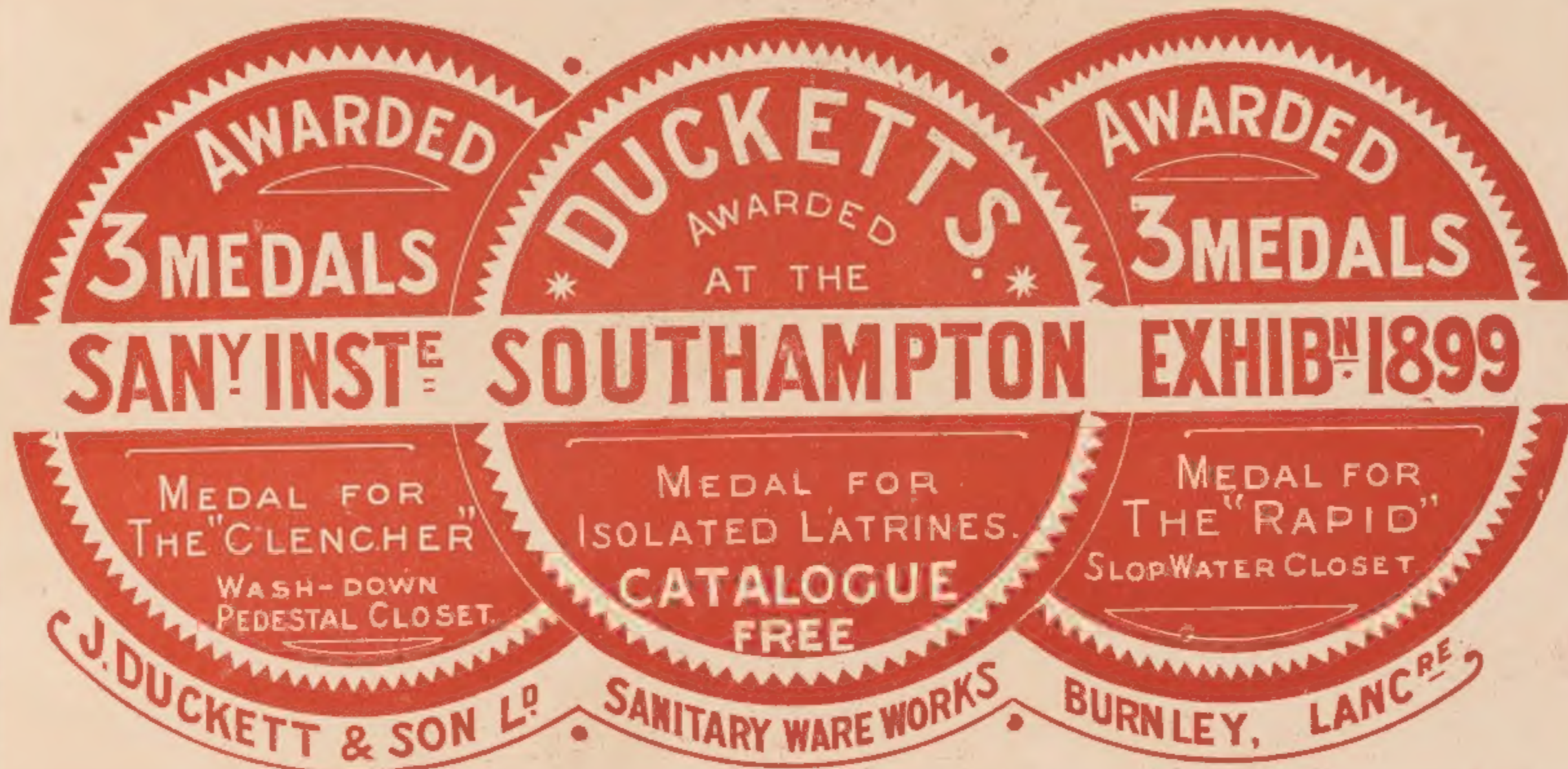
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Sanitary Ware Works,  
Burnley,

22nd August, 1900.



Dear Sir,

We beg to inform you that owing to the still further increase in the cost of Fuel, etc., we are obliged to again advance our prices for Sanitary Specialities. This will take effect on September 1st, and will be Ten per cent., making a total of

**Twenty per cent. Extra**

on prices in our 1898 Catalogue.

Trusting to receive a continuance of your valued orders, which shall receive our careful attention.

We are, yours faithfully,

J. Duckett & Son, Ltd.







# INTRODUCTION.



**I**N presenting this **New Catalogue** of our **Sanitary Specialities**, we wish to invite the attention of Sanitary Engineers, Architects, Property Owners, Builders, and others, to the **many improvements** which we have brought out since we issued our 1895 Catalogue, comprising improved forms of **Slop-water Closets, Urinals, Street Gulleys, Grease Traps, Disconnecting Traps, etc.**

Our Improved Closets, Flushed Automatically by Slop-water, are becoming more popular as their merits become known. It is now admitted by those who have given them a fair trial that **they are more suitable for outdoor purposes than fresh-water flushed closets**, and the result of their adoption shews **a saving of town's water**. We can strongly recommend their use on **sanitary** as well as on **economical** grounds.

A perusal of the short article on "Automatic Slop-water Closets" is suggested, and a reference to the extracts from Dr. Parsons' Report to the Local Government Board will be found of interest and value.

Our Sanitary Specialities are used by **Her Majesty's Government, many Corporations, Sanitary Authorities and Railway Companies, etc.**, and no expense is spared on our part to supply efficient articles of the best material and workmanship.

**J. DUCKETT & SON, LTD.,**

**SANITARY WARE WORKS,**

*March, 1898.*

**BURNLEY.**



# Automatic Slop-Water Closets.

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The following remarks have been prepared by F. S. BUTTON, M. Inst. C.E.,  
for 7½ years Borough Surveyor of Burnley, now General Manager  
to J. Duckett & Son, Limited.

---

**Sanitary Science** has made great progress during the past few years, and more particularly with respect to the removal and disposal of House Refuse and Excrementitious Matter.

**The Public Health** of cities, towns, and villages is very deservedly receiving the earnest attention of Sanitary Authorities, and one of the most important questions before public bodies at the present time is "In what manner shall we dispose of our domestic refuse and excrement?"

With respect to the more important part of the above question, namely, the disposal of fæcal matter, it will readily be admitted that the system known as Water Carriage is the best, inasmuch as it is both economical and sanitary. **The pail or tub system** is now almost universally condemned, as it is, in addition to being a costly system, an insanitary one. Sir Robert Rawlinson, K.C.B., has described it as a "**filthy, stinking abomination.**" It has been argued by some that the pail system has done good service, and that the death-rates of the towns wherein the system is in use bear very favourable comparison with the death-rates of those town where the water carriage system is adopted; the answer to this is, that although the pail system has done good service in the past, it is now behind the times, and if the towns where it is in use would abandon it and adopt the Water Carriage system the comparisons between the death-rates would be still more favourable. **The Water Carriage System** is without doubt the most satisfactory method for the removal of fæcal matter from dwellings.

The drainage of towns is now receiving great attention by public authorities, and within a few years every town, it is to be hoped, will be placed in an excellent position with respect to its sewerage system and method of disposal of sewage. The system, from a sanitary and economical point of view, will be incomplete until the water carriage of excreta is fully adopted and at work.

Looking at the question from a financial standpoint it must be obvious that the saving in the collection alone of fæcal matter is a great item. Take the case of Burnley which has a population of over 100,000 and 22,000 dwellings, the water carriage system is extensively adopted, and in a short period the whole of the Borough will probably be on this system. In 1888 the number of water closets in the Borough was 6586, and the number of pails, cesspools, &c., was 9009. At the present time (March, 1898) the numbers are



19,540 water closets (of which 13,615 are slop-water closets) and 1,478 pails, cesspools, &c. The Corporation employ men for the purpose of inspecting the water closets in the Borough, and the cost of so doing is less than £130 per annum, or about 1½d. per closet per annum. On the other hand, if these were all on the pail system the cost of collection would not be less than 5s. per closet or £4,885 per annum. The immense saving in money alone is strong evidence in support of the water carriage system, but the improved death-rate has without doubt been brought about to some extent by the adoption of the water carriage system and the abolition of the pail system; from 1888 to 1895 the decrease in the annual death-rate has been 2 per thousand of the population, or in other words the lives of 200 persons are saved per year in Burnley alone, owing to improved sanitary conditions.

The removal at frequent and short intervals from the proximity of the dwelling of what might by its retention result in the generation of disease-spreading germs, is the strongest argument which can be used in support of the water carriage system.

The disposal of sewage from a water-closetted town is not more difficult than that from a non-water-closetted town, and it might be taken that the disposal of sewage sludge from the outfall works is assisted, owing to the superior manurial value of the sludge from the sewage of a water-closetted town. At Burnley, for example, 30,000 tons of wet sewage sludge are removed from the precipitation tanks in a year and are reduced by means of filter presses to 6,000 tons of semi-dry manure. This quantity is readily disposed of to farmers at 10d. per ton, and at times the demand is greater than the supply. A well known pail-closetted town produces a large quantity of sewage sludge at its sewage works per annum, but instead of a ready sale steps are being taken to get rid of it by means of refuse destructors, which must add to the cost considerably. In addition to this the great cost of collecting the contents of about 15,000 pails must be taken into account, which is about £7,000 a year. Sufficient has perhaps been said of the advantages of the water closet over the pail closet, it will now be advisable to refer to the various methods of water carriage in operation, and to their respective merits and advantages.

Generally speaking, they may be classified under two heads, viz.:—Clean Water flushed, and Slop Water flushed. The former has an advantage over the latter, viz.:—that it is suitable for indoor purposes, and the slop water closet is not, but the waste or slop water closet has many advantages over the clean water closet, viz.:—1st.—That in the severest winter it is not liable to get out of order by freezing up. 2nd.—That there is a great saving of town's water, inasmuch as there may be a saving of at least 3 gallons of water per head per day, or probably 15 per cent. of water consumed, which to public bodies is of great importance. 3rd.—That where the slop-water from a dwelling is collected and passed through the closet, the flushing of the closet will be on the average about 4 times per head per day. 4th.—The house drain is regularly flushed. 5th.—The cost of maintenance is reduced to a minimum, plumber's bills being done away with absolutely. 6th.—The prime cost is less. 7th.—Less liability to get out of order through rough usage. 8th.—Diminution in the volume of sewage to be treated.

The Slop-Water system for out door closets is strongly recommended by those who are thoroughly familiar with it, and a perusal of the opinions of various public officials will bear out the above remarks. It is the best system that can be adopted for both large towns and small villages, and may be applied to the latter with excellent results, where a suitable drain is provided either with an outlet to a sewer or to a settling tank.



# IMPORTANT TRIAL

— RELATING TO —

## SLOP-WATER CLOSETS.

*The Corporations of Liverpool and Chorley at issue.*

Several Water Companies, including the Corporation of Liverpool (who supply Chorley with Water), have objected to the adoption of Slop-water Closets, on the ground of its being illegal to make use of slop-water for flushing, we append verbatim report of a trial in the COURT OF QUEEN'S BENCH, which we think finally settles this question:—

*Verbatim Report taken from the "Liverpool Courier," May 28th, 1892.*

### "ALLEGED IMPROPER USE OF CORPORATION WATER."

In the Queen's Bench Division, yesterday, the case of *Evans v. Gornall* again came before Mr. Justice Mathew and Mr. Justice Wright, in the form of an appeal by way of special case from the decision of certain justices of Chorley, raising an important question as to whether the inhabitants were entitled to use their waste water for water-closets or any other purpose.

Mr. Moulton, Q.C., with whom was Mr. Forbes Lancaster, continued his arguments in support of the appeal. He said that although the sum involved in this particular case was small, the point raised was one of considerable importance. The contention of Mr. Gornall was that having once used the water for domestic purposes he was entitled to use it in any way he liked before allowing it to run into the sewer. He (the learned counsel) submitted that the water was supplied expressly for domestic use, and there was no right on the part of the consumer to use it for any other purpose. If the use of the apparatus employed by

Mr. Gornall became general, not only would the special charge for water for water-closets be avoided, but the water which was supplied without limit for domestic purposes would be so lavishly used that the difficulty of the supply would be much enhanced. Apart from mere waste, they objected to the action of Mr. Gornall on sanitary grounds. It was true they were not a sanitary authority, but they objected to any connection between such an apparatus and their pipes.

Their lordships, without hearing counsel for the respondent, dismissed the appeal with costs. Mr. Justice Mathew said, in his opinion, what was contemplated by the section was a misuse of the water. It could not, however, be said that the respondent had in any way misused the water. Mr. Justice Wright said he was of the same opinion. The sole object of the section was to prevent a person taking more water under the colour of domestic use than was reasonably wanted for that purpose. There was nothing of the sort in the present case.

Appeal dismissed accordingly, with costs."

**NOTE.**—The Slop-water Closet fixed by respondent was one of Ducketts' Patent.

**J. DUCKETT & SON, Ltd.,**

*Sanitary Ware Works, BURNLEY, Lancashire.*



# EXTRACTS FROM DR. PARSONS' REPORT ON "SLOP-CLOSETS & TROUGH-CLOSETS,"

EMBODIED IN THE

**Annual Report of the Medical Officer of the Local Government Board  
for 1890.**

PAGE 15.—"The most effectual arrangement seen by me appeared to be the annular basin in the closets now made by Duckett & Son. In arrangement A, where the tipper is at a distance from the closet, the discharge from the tipper enters the pan at a tangent, and, after circling round it, is directed into the orifice in the centre by a stop; this gives a powerful whirlpool action, which completely clears the pan of all matters that will pass the orifice, whether lighter or heavier than water. In an experiment a large quantity of dry grass, enough to fill the basin, was completely removed by one discharge of the tipper."

PAGE 18.—"Whatever may be the advantages of so-called 'dry closets' in isolated houses or rural places, the advantages appear to me unquestionably to be altogether on the side of slop closets where sewers and water supply are available for the water carriage of excrement."

PAGE 20.—"Their less liability to be affected by frost seems to be a distinct advantage of slop closets over ordinary water closets for out-of-door use."

PAGE 20.—"On the whole, automatic slop closets appear to have some advantage over water closets in being less likely to get out of order. The slop flushing arrangement, by means of a well-designed tipper, is less likely to be deranged by careless usage than the water supply to a water closet, and it gives a better flush."

PAGE 22.—"Slop closets are, in my opinion, likely to be of great use (both for new houses and in substitution for existing privies) in the growing working-class suburbs of towns, where each house stands in its own curtilage, and has its separate closet; and especially where it is desirable to economise the public supply of water."

## TESTIMONIALS.

**From THOMAS DEAN, Esq., M.D., Medical Officer of Health,  
County Borough of Burnley.**

"After many years' experience of your Automatic Waste-Water Closets, I find that they work satisfactorily when properly looked after, **they are very sanitary**, are more economical than clean water closets, there is a saving in the consumption of town's water, they do not freeze but maintain their efficiency under all climatic changes, and are altogether superior from a sanitary point of view to any other system of out-door closets known to me. **I can strongly recommend their use on sanitary as well as economical grounds.**"

**From WM. WILLIAMSON, Esq., Water Engineer and Manager,  
County Borough of Burnley.**

"The Automatic Slop-Water Closets made by you have been very largely adopted in this Borough—there being several thousands of them in use.

On their introduction, eight years ago, I feared a great waste of water would be the result; but, I am pleased to state, **after careful observation both by day and by night, that I find there is no waste of water.**

I consider them exceedingly well adapted for the purpose for which they are intended."



## Testimonials—Continued.

***From Mr. JOSEPH B. MASSEY, Chief Sanitary Inspector,  
County Borough of Burnley.***

"I have much pleasure in stating that your Waste-Water Closets fixed in this Borough are giving every satisfaction.

Up to date there are about 9,268 of your closets fixed, and this number is rapidly increasing.

I am convinced that the system is an excellent one for outdoor closets, and I know of many cases in this Borough where clean-water closets have been taken out and waste-water closets fixed in their places, for the simple reason that they are less frequently out of order, and therefore less expensive to owners.

During the severe winter of 1894-95 the blockages per cent. in clean-water closets were eight times more than in slop-water closets. I have never known a case of freezing up of a working slop-water closet.

Although we have many thousands of slop-water closets in use in the Borough, the annual cost to the Corporation in respect thereof does not exceed £130.

The slop-water system is an excellent one; the slop-water closet is very sanitary, and one that can be recommended to Sanitary Authorities for their adoption."

***From A. GREER, Esq., C.E., City Engineer and Surveyor, York.***

"We have used a considerable number of Ducketts' Closets in the City, where they have been an unqualified success. They meet the wants of all property owners, in that there is no charge for the water used, and no bills for damage through frost—two items of very considerable importance.

From a sanitary point of view I consider them eminently suitable for outside closets."

***From J. H. TAYLOR, Esq., C.E., Borough and Water Engineer,  
Barnsley.***

"For a considerable time I was loath to adopt Slop-Water Closets in Barnsley, on account of the fear I had that it would induce a wasteful and unnecessary use of town's water. I therefore, in the first instance, put two rows of ordinary cottages under the system. The water supply of these houses was carefully gauged by meter, and a census of the population dwelling in these houses was taken and recorded. The water supply to two similar rows of cottage houses, but on the ordinary dry-ash closet system, was also at the same time gauged by meter, and the population registered, as in the case of the slop-water closet houses, and the result was to clearly shew that the consumption of water per head of the population by the persons using the slop-water closets was the same as those using dry-ash closets.

The saving to the town is already very considerable, because the excreta from the cottages is conveyed to our Sewage Farm through the sewers, whereas, if the dry-ash closet system had continued, the removal of the excreta would only have been carried out at considerable cost."

***From A. A. STOTT, Esq., Architect, Estate Agent, &c.,  
Heckmondwike.***

"Having specified your Slop-Water Closets for some years, I consider them efficient, cheap and sanitary.

Not being likely to get out of repair, they are well adapted for cottage property, &c."



## Testimonials - Continued.

***From J. W. BRADLEY, Esq., C.E., Borough Engineer, County Borough of Wolverhampton, late Borough Engineer, Nelson.***

"The system of Automatic Slop-Water Closets was adopted in Nelson in preference to clean-water closets for outdoor use in all classes of property. At the time of my departure there were some 5,000 waste-water closets in that Borough. In many instances property owners replaced clean-water closets with slop-water closets although town's water was supplied to the former free of charge, and the cost of conversion in its entirety was borne by the property owners.

Numerous observations shewed a saving in the quantity of water used for closet flushing purposes as compared with clean-water closets, this of course meaning less sewage to be treated at the outfall works."

***From J. W. WARDLE, Esq., C.E., Borough Surveyor, Longton.***

"Your Slop-Water Closets have been in use in this Borough for the last five or six years, and with such satisfactory results that, in December, 1891, the Council resolved 'that flush closets be insisted upon in cases of erection of new dwelling-houses, and also where practicable in all cases of reconstruction of old closets.'"

I consider your Slop-Water Closet a most excellent sanitary arrangement for cottage property, and especially to be recommended on account of its freedom from risk of freezing up in winter.

***From JAMES SAVILLE, Esq., Surveyor to the Urban District Council, Heckmondwike.***

"It is about seven years since I first had one of your Automatic Waste-Water Closets. Since then they have been greatly improved, and I have been the means of a considerable number being fixed in this neighbourhood. During the last ten months about 110 have (through my advice) been fixed in Heckmondwike.

I have every confidence that, if properly fixed, they are the best means of removal of faecal matter from outside conveniences. So far they have proved practically satisfactory."

***From W. J. NEWTON, Esq., C.E., Borough Engineer and Surveyor, Accrington.***

"After eight years' experience of the working of your Automatic Waste-Water Closets, I have no hesitancy in stating that I thoroughly approve of the system, and believe it to be the most sanitary, economical and satisfactory method for the removal of faecal matter.

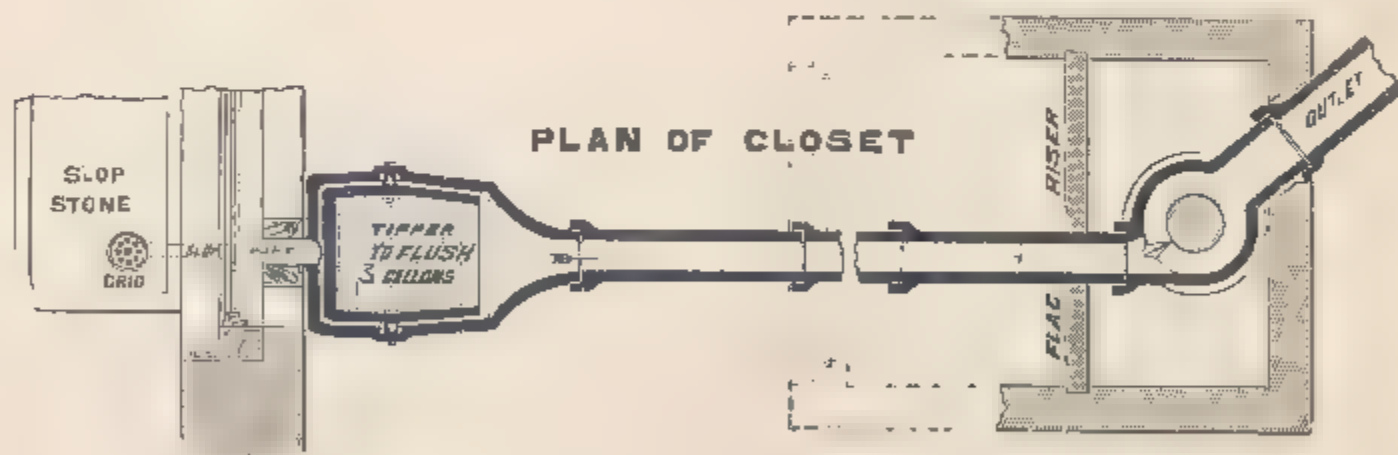
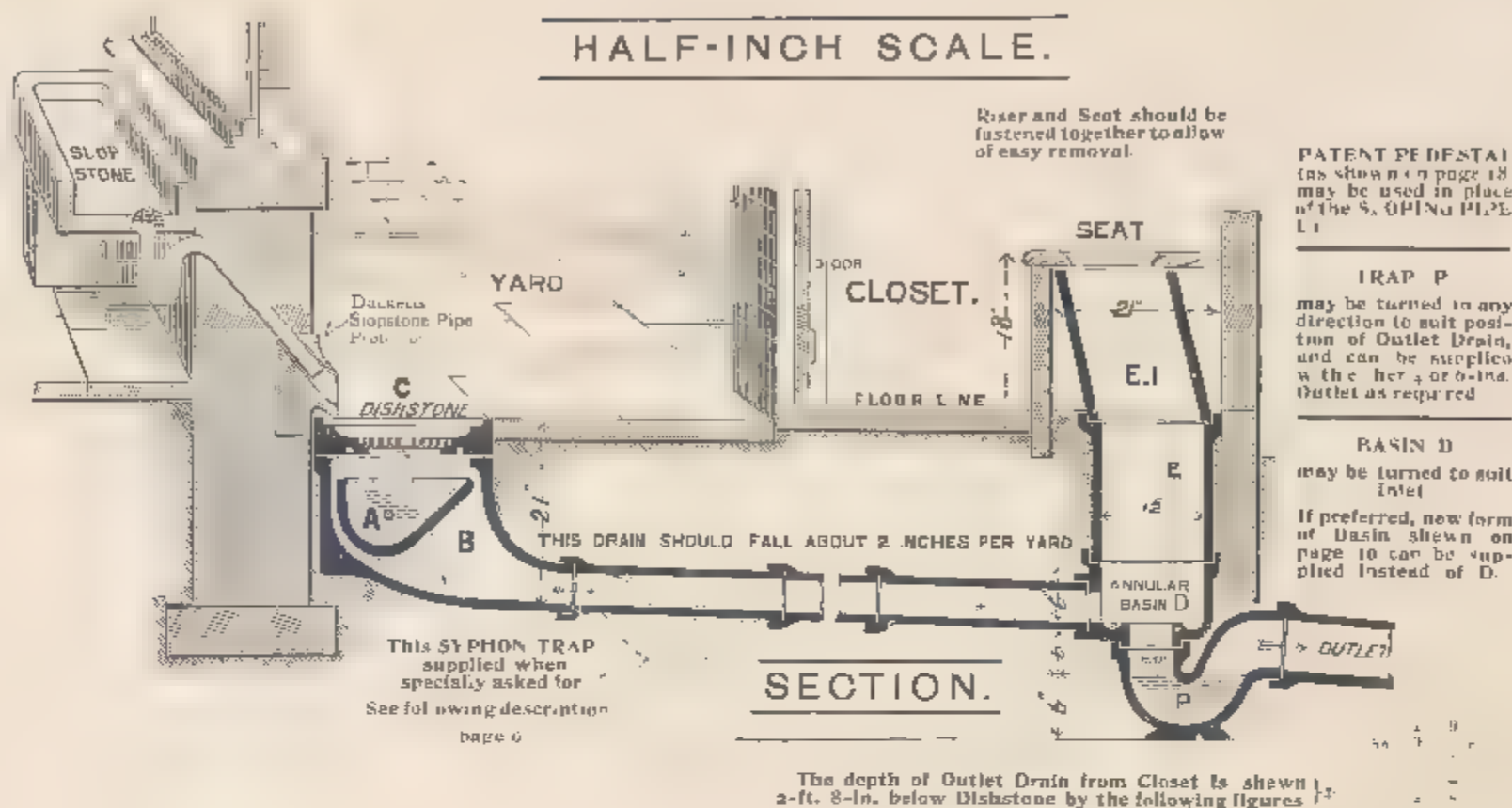
Since we adopted it here, over eight years ago, there has been a general improvement in sanitation, which is evidenced by the continued diminution in the death rate—last year 12·98 per 1,000. We consider our town one of the healthiest in Lancashire, fully three-fourths of the population are provided with the Waste-Water Closet, and so convinced is my Council of the efficiency and economy of the system, that a sum of £500 is set aside annually out of revenue, and a contribution, not exceeding £2 per closet, is made to property owners who will convert existing pail closets to the Waste-Water Closets.

For outside use I consider your Closets are far preferable to Fresh-Water Closets, for the following, amongst other reasons:—1st. They are not affected by frost. 2nd. Saving of town's water, and cost of same. 3rd. Simplicity of construction, no mechanism to get out of order. 4th. The flushing does not depend upon the person using the same, being automatic. 5th. Cleanliness."



# DUCKETTS' PATENT AUTO

## ARRANGEMENT A.



### Description

**THIS APPARATUS** is made of Salt-Glazed Ware. It gives a powerful flush requires little attention is cheap and effective.

**A** is Self-Acting Tipper of 3 gallons capacity, with brass steps, axes, copper covers, axes, and patent rubber buffer (see page 10). Guaranteed to be in action, letting water nearly full and discharging with great force through the closet trap. **B** is Box for same. **C** Dishstone, 18-in. x 18-in. x 4-in., covering Tipper, and provided with 7 in. square iron Grate, secured with brass bolts. **D** Patent Annular Basin. This with the special Trap **P** gives a very powerful flush. **E** Vertical Pipe. **E1** Sloping Pipe.

For Patent Pedestal see page 18.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# MATIC SLOP-WATER CLOSET.

With Improvements (1894 and 1898 Patents.)

**IN THIS ARRANGEMENT** the Pipe and Sides of the House Drain as well as the Closet Pan and ordinary Yard Gully is dispensed with. It works well when distance from tipper to closet is short.

For longer distances Arrangement B (pages 12 and 13) is recommended.

The Syphon Trap adjoining Tipper Box (see dotted lines) is very rarely required.

The Pipe E should not be more than 3 feet long unless the Quatrefoil Pipe described below or the Patent Pedestal described on page 18 is applied.

**INSTRUCTIONS FOR FIXING** Determine the depth of the house drain and the depth of the closet pan and 6-ins. marked on section. This will give depth of invert of closet outlet drain below top of dishstone. Set Trap P and Tipper Box level, on a good, firm foundation. Make good all joints with Portland cement (except the joint between Pipes E and E 1, which should be made of soft material to allow of easy separation when necessary.)

**PRICES, on Rails at Burnley, in Salt-glazed Ware:**

	£	s.	d.
Complete Closet, including A, B, C, D, E, E 1, and P as shown on page 8 . . . . .	1	10	0
If fit up with Quatrefoil Pipe, as described below . . . . . each		2	0
If with Plain Pedestal and Plain Fixed Seat . . . . . each		8	6
If fit up with Amber-Enamelled Patent Pedestal and Quatrefoil Pipe with Painted and Varnished Hinged Seat, as per page 18 . . . . .		12	6
If fit up with Amber-Enamelled Fixed Pedestal and Quatrefoil Pipe with Painted and Varnished Hinged Seat, as per page 18 . . . . . each		10	6
When Vertical Pipe E is required more than 18 ins. long . . . . . for each foot		1	0
If with Stanford Joint between Annular Basin and Trap . . . . . each closet		1	0
If insides are required Enamelled, 20% extra will be charged on above prices			

**In Ordering** state which of the various kinds is required. Give approximate length of Pipe E.

**Weight About 3 cwt. per Closet.**

## QUATREFOIL PIPE.

The bottom part of upper pipe is formed into a quatrefoil as shown on diagram. Above the quatrefoil the sides of the pan are suitably sloped to meet this form of opening. The design is to prevent large articles such as tins, etc., being thrown into the trap.

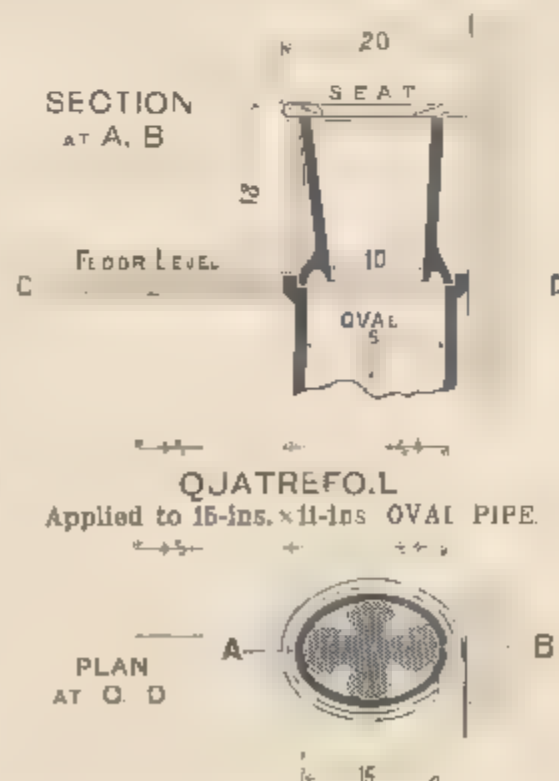
The quatrefoil is much superior to the long narrow slit sometimes adopted for the same purpose.

Drawing shows quatrefoil applied to an oval pipe 15-ins. x 11-ins., but it may be applied to a circular pipe or for pipes of any size. The circular at the bottom is made. (Prices are alike.)

To facilitate access to closet trap it is advisable to fasten the seat board with screws, and to make the joint at floor level with soft material.

**NOTE.** Ducketts' Patent Pedestal, as described on page 18, is provided with a quatrefoil when required.

For Prices of Quatrefoil Pipe, see above.

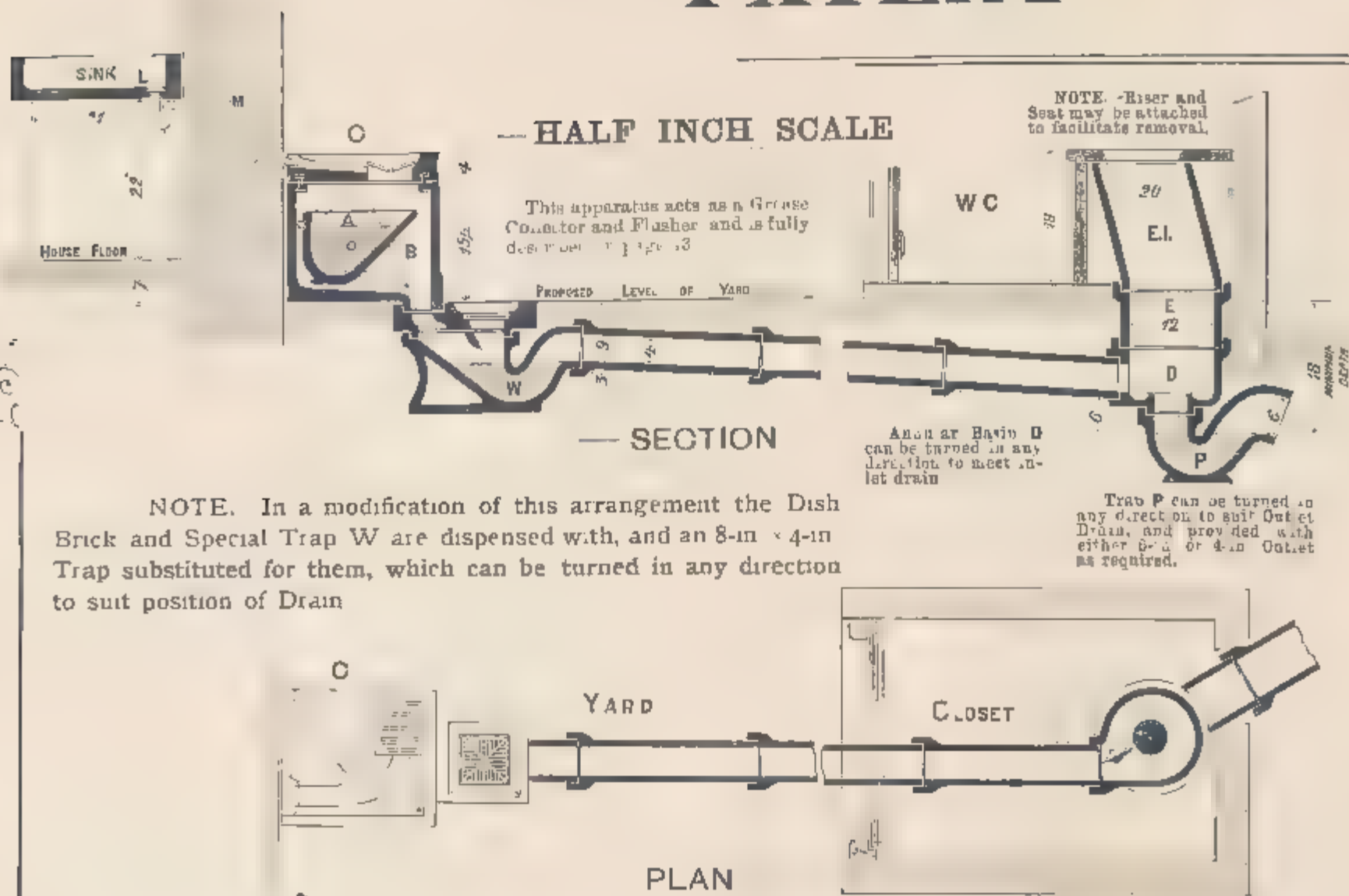


**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS'

## PATENT





# A1 Automatic Slop-Water Closet.

## Description

THIS CLOSET is made of glazed ware, and is designed to reduce the depth of drain, also to render the parts more accessible than they are in other bottom-flushed Closets.

**A** is an Automatic Tipper mounted on brass bearings and provided with Patent Buffer fixed in Box **B**. **C** is a Channelled Dish to cover the Tipper. **D** is Annular Basin. **E** is Lengthening Pipe. **E1** is Slop-pipe. **L** is the Sink. **M** the Waste Pipe. **P** is a Trap which can be turned in any direction. **W** is a Special Trap to receive tipper contents and also yard drainage.

The Box may have either a plain or an ornamental exterior as required. The Tipper is made in two sizes, 3 and 4 gallons, the former is ample when drain leading to closet is short and with a fall of not less than one in twenty. A 4-gallon Tipper fixed as shewn exerts about the same force as the 3-gallon Tipper in Patent Slop-Water Closet, Arrangement B.



PERSPECTIVE VIEW OF BOX, DISH, TRAP, &c

## Advantages

The Apparatus is easily fixed and at little cost.

Drains are shallow.

The length of Vertical Shaft is 12 inches less than in any other similar Closet.

All parts are accessible.

## Prices, on Rails at Burnley, in Salt-Glazed Ware:

		£	s.	d.
Complete Closet, including 3 gallon Tipper <b>A</b> Plain Box <b>B</b> and Cover <b>C</b>		1	10	0
Basin <b>D</b> (or <b>D1</b> ), Pipes <b>E</b> and <b>E1</b> , and Traps <b>P</b> and <b>W</b> .....				
If with Ornamental Box and Cover for same, as shewn .....		2	6	
Optional	Box and Cover — Enamelled Amber Ware ..	4	0	
	4 gallon Tipper or 1 gal. of 3 gallon Tipper ..	1	6	
Extras :	Plain Fluted Pedestal and fixed painted and varnished Seat .....	8	6	
	Fluted Pedestal in Enamelled Amber Ware with fixed painted and varnished Seat...	10	6	
	do. do do do with Quatrefoil...	12	6	

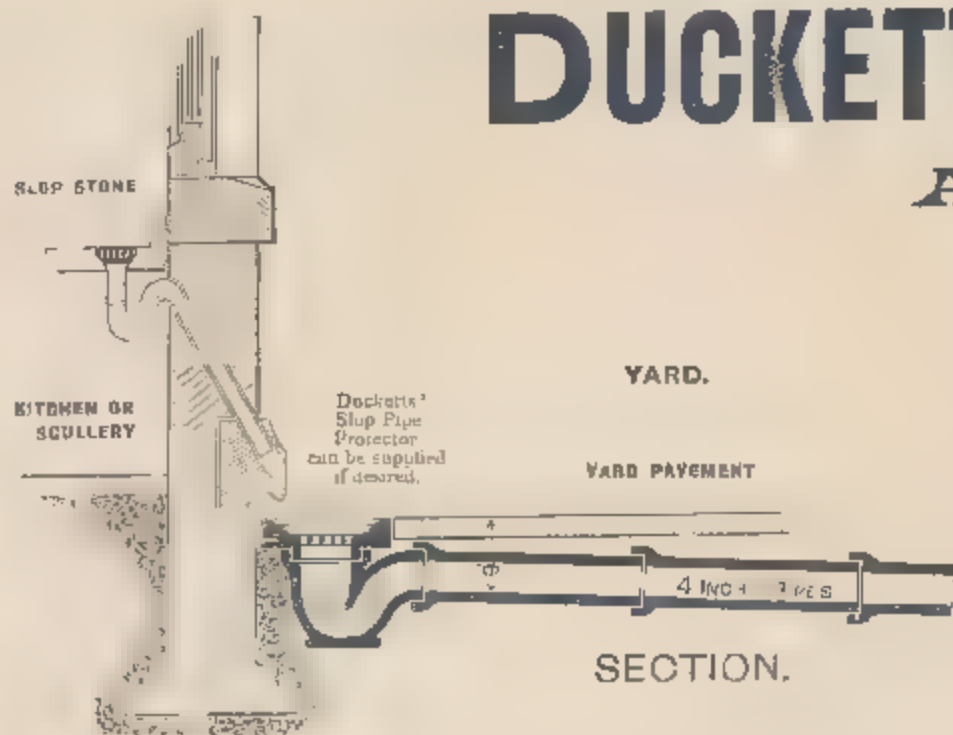
*IN ORDERING* state which form of Basin is required, *D* or *D1*, Fig. 1, also whether Trap *W* or 8" x 4" Trap is required, prices being the same

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

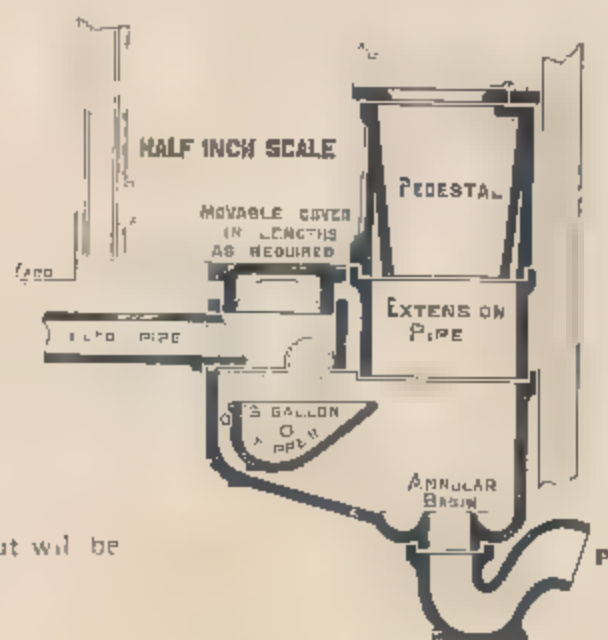


# DUCKETTS' PATENT AUTO

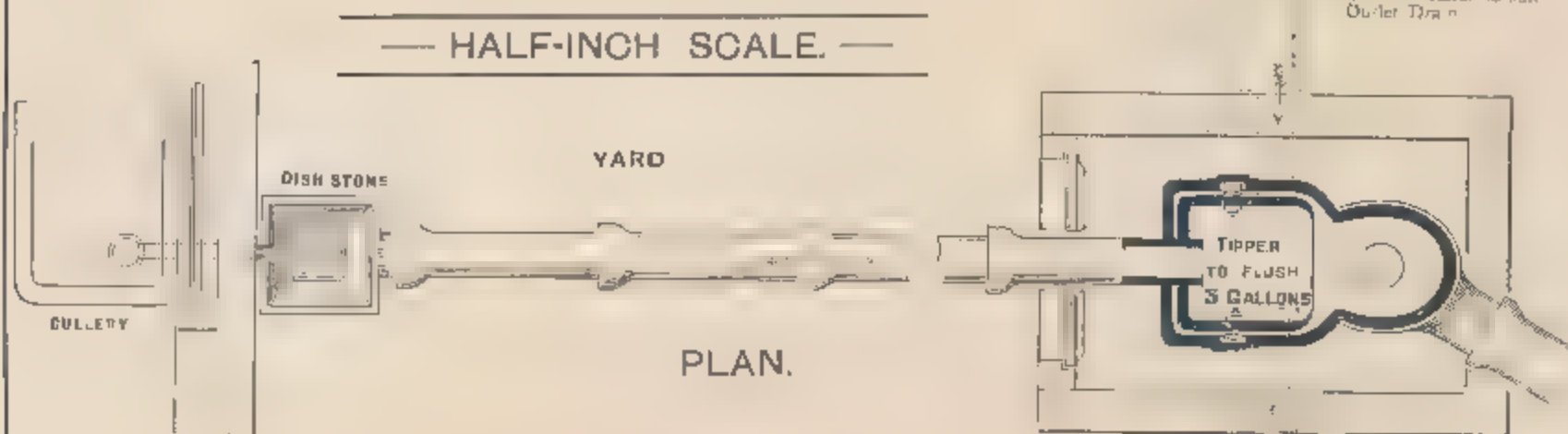
## ARRANGEMENT B.



**NOTE.** Trap P can be supplied with 4 or 6-inch outlet, but will be sent with a 6-inch outlet unless ordered otherwise.



Trap P can be turned back in section to flush Outlet Drain



### IMPORTANT PATENT ACTION

In the Queen's Bench Division of Her Majesty's High Court of Justice and in the Court of Appeal

The validity of our patent for this closet (17991 of 1888), known as "Arrangement B," was strongly contested in the years 1894-5, when we brought an action against a person who was making it without our license. After a lengthy hearing we were successful, judgment being

judgment of the Lower Court.

**J. DUCKETT & SON, Ltd.**

**DESCRIPTION** This Arrangement applies where closets are a good distance from the scullery, there being no actual loss of flushing power in the pipes. It differs from Arrangement A in the following respects: viz. That the pan is self-cleaning and the flushing of the closet pan is the best that can be obtained, as the tipper discharges with great force into the annular basin and trap, producing an excellent scouring flush. The tipper is not liable to fouling by excreta, &c., as it is placed clear of the pipe, and the bearings of tipper are protected by copper covers.

The buffer is at the back of tipper, and consequently, more durable than when at the sides. It is fully described on page 19.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



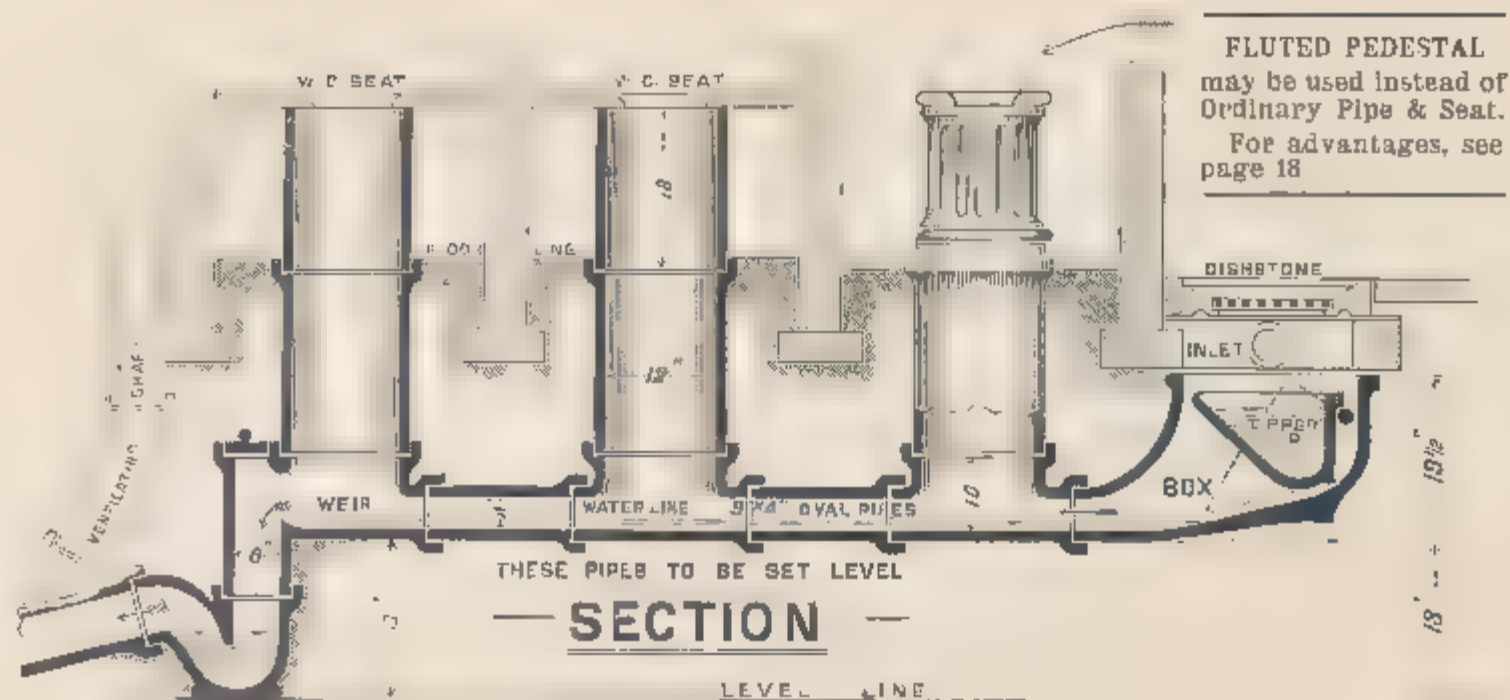




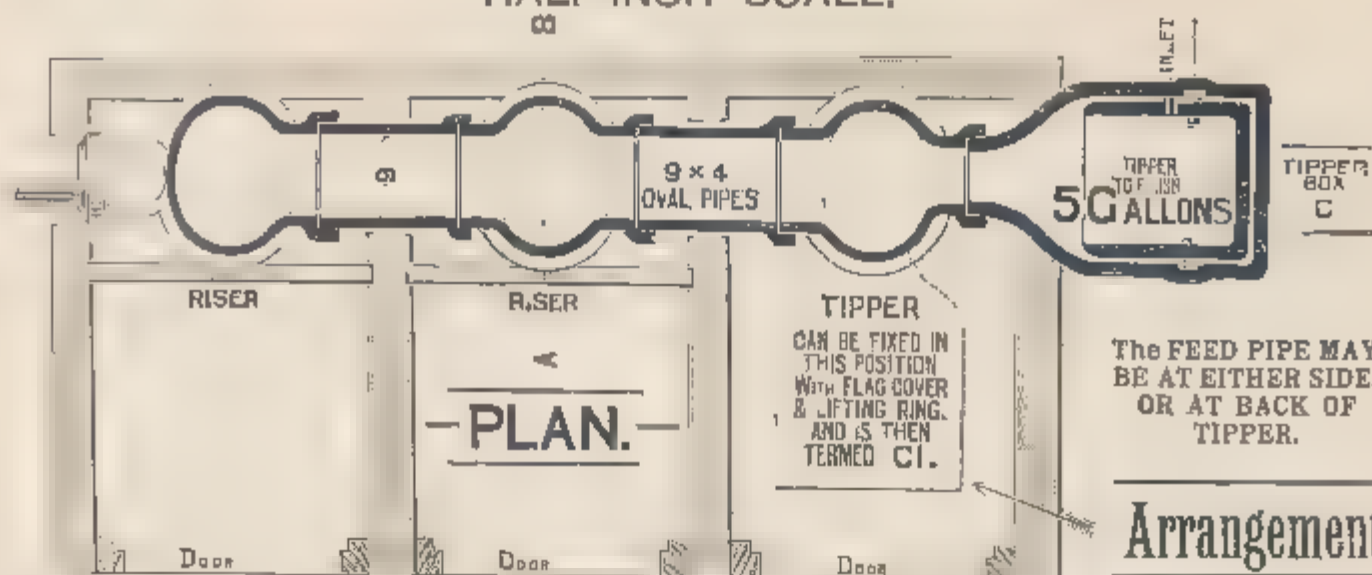
# DUCKETTS' Patent Automatic

Arrangements C, C1, and C2.

## — ARRANGEMENT C. —



HALF-INCH SCALE.



Arrangement C1.

**Diagram showing Arrangement applicable for Flushing 2, 3 or 4 Closets with a Five-Gallon Tipper.**

When Flushed with Slop-Water only, to secure efficiency the water supply should be from as many Houses as there are Closets.

A 10-gallon Tipper can be supplied where extra flush is needed.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# Multiple Closets. FLUSHED WITH SLOP-WATER.

With Improvements, 1894 and 1898 Patents.

## ARRANGEMENT C2.

HALF-INCH SCALE.



By the above arrangement, 9 Closets can be efficiently flushed with two 5-gallon **Tippers**, when each Tipper is supplied with slop water from 4 houses.

It will be observed that a Tipper is fixed at each end of the range, and the outlet to the drain is at or near the centre and can be turned in any direction to suit drain connection.

**IN ORDERING** state whether Arrangement C, C1, or C2, is required; give number and width of Closets, and thickness of walls, so that correct lengths may be sent. Also give approximate length of vertical pipe to floor of Closet and state whether extra upper pipe is required plain, sloping as on page 8, or fitted with plain or Fluted Pedestal as described on page 18.

**NOTE.**—To find length of vertical pipe, first ascertain how much top of tipper container will be below floor of Closet, then add 19½-ins. for depth of container, and deduct the 10-inches depth of basin.

For Advantages of Oval Pipes over circular ones see page 23.

## PRICES, on Rails at Burnley, in Salt-Glazed Ware :

	£	s.	d.		£	s.	d.
For 2 Closets complete, Arrangement C or C1	2	15	0	4 or 6 Closets complete, Arrangement C2	7	10	0
" 3 " " " " " "	3	12	6	" 7 " " " " "	8	10	0
" 4 " " " " " "	4	10	0	" 8 " " " " "	9	5	0
" 5 " " " " " " Arrangement C2	6	10	0	" 9 " " " " " "	10	0	0

### OPTIONAL

### EXTRAS:

If Amber Enamelled Fluted Pedestals with Painted and Varnished Hinged Seats are used, 10 6 each. These Pedestals are much approved.

If 10-Gallon Tipper is supplied in place of 5-Gallon Tipper, 30 - per Tipper.

If insides are required Enamelled, 20% extra will be charged.

If with Stanford Joint between Basin and Trap, 1 - each.

Painted and Varnished Pine Seats, as per Closet No. 2, page 22, 5 - per Closet.

When more than 3-ft. of Oval Connecting Pipe is required, 1 - per extra foot.

**WEIGHT** of 3 Closets, with one 5 gallon Tipper, &c., about 8 cwt.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

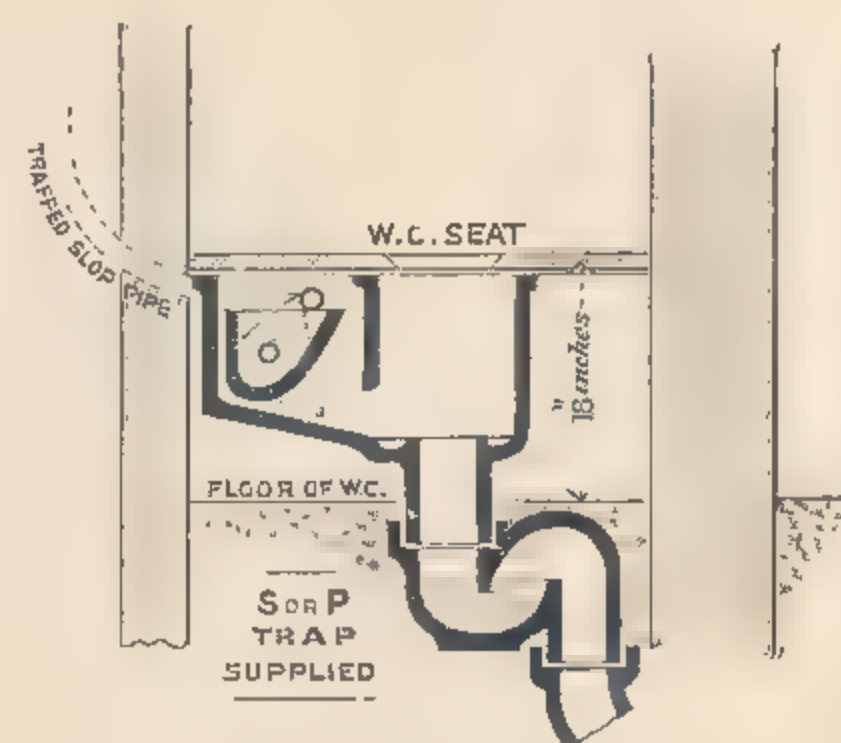
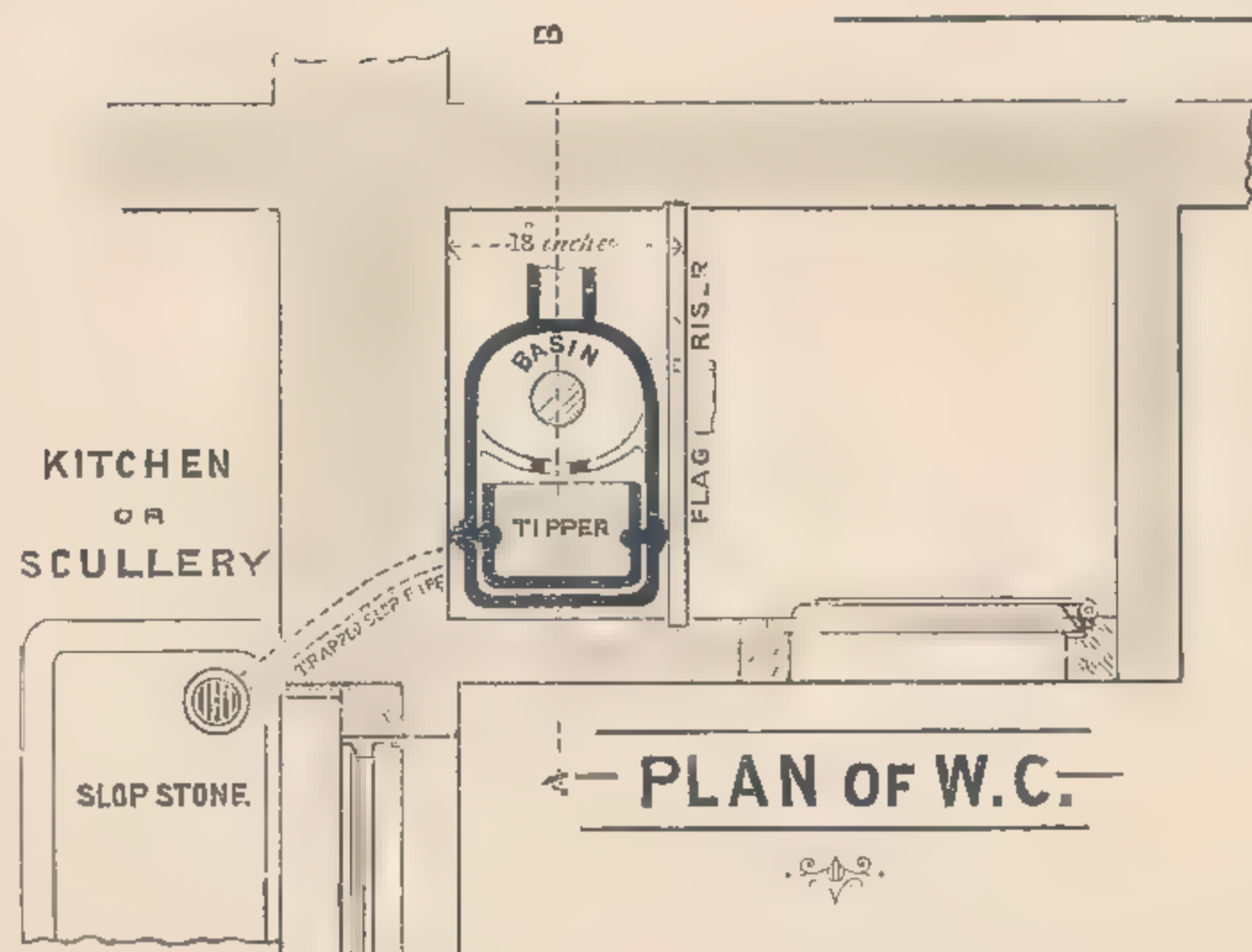


# DUCKETTS'

## Patent Automatic Slop-Water Closet.

### —BLACKBURN PATTERN.—

HALF-INCH SCALE.



### . . . Description . . .

This Arrangement is adapted for positions where W.C. adjoins the building, and when the outlet drain is too near the surface for A or B Arrangements.

It will be observed that the lead pipe from Slopstone discharges direct into the Tipper, and that the Tipper is fixed above the Closet floor. **NOTE.**—The lead pipe should be trapped.

This Apparatus is very compact, the smaller size (to flush  $1\frac{1}{2}$ -gallons) being only 23-ins. long and 16-ins. from front to back, and the larger size (to flush 3-gallons), 30-ins. x 18-ins.

The Seat Board covers both Tipper and Basin, and should be fastened with screws to give ready access.

### PRICES, on Rails at Burnley, in Salt-Glazed Ware:—

Closet, (larger size), including Basin, Tipper, and Trap...£1 8s. 0d. Smaller Size...£1 6s. 0d.

If insides are required Enamelled, 20 per cent. extra.

If with Stanford Joint between Basin and Trap, 1/- each extra.

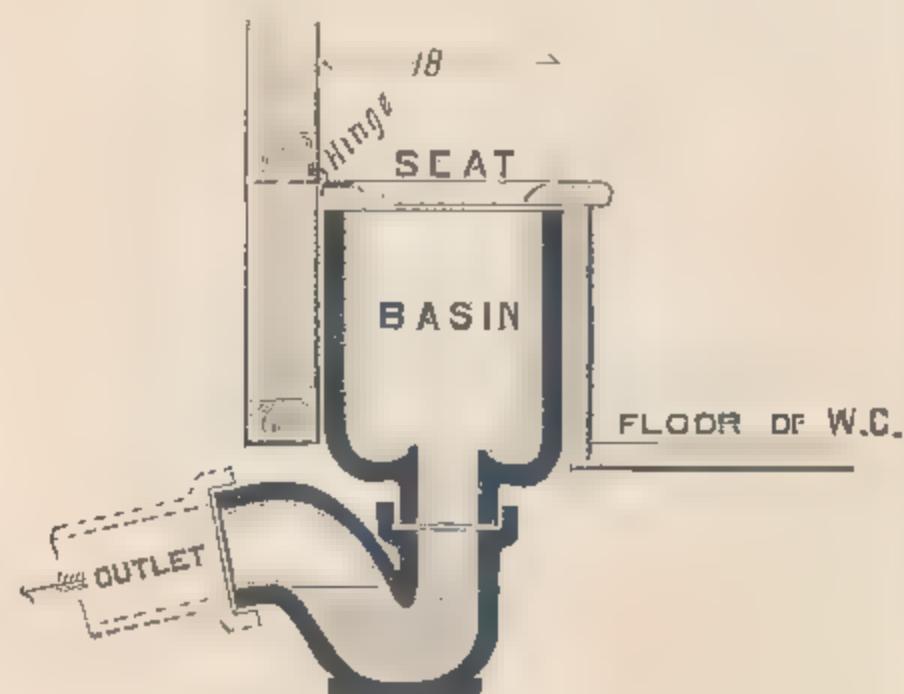
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



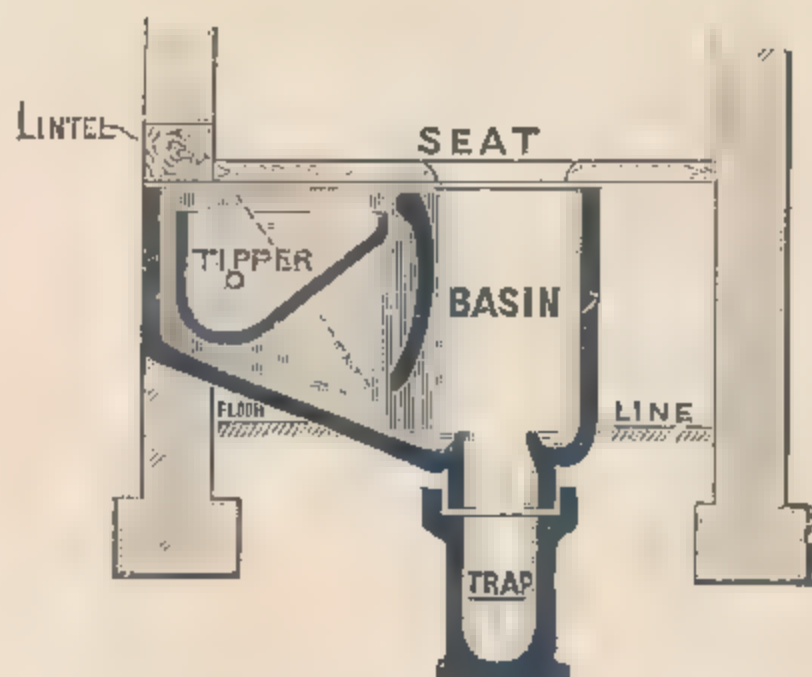
# DUCKETTS' PATENT AUTOMATIC W.C.,

FLUSHED WITH

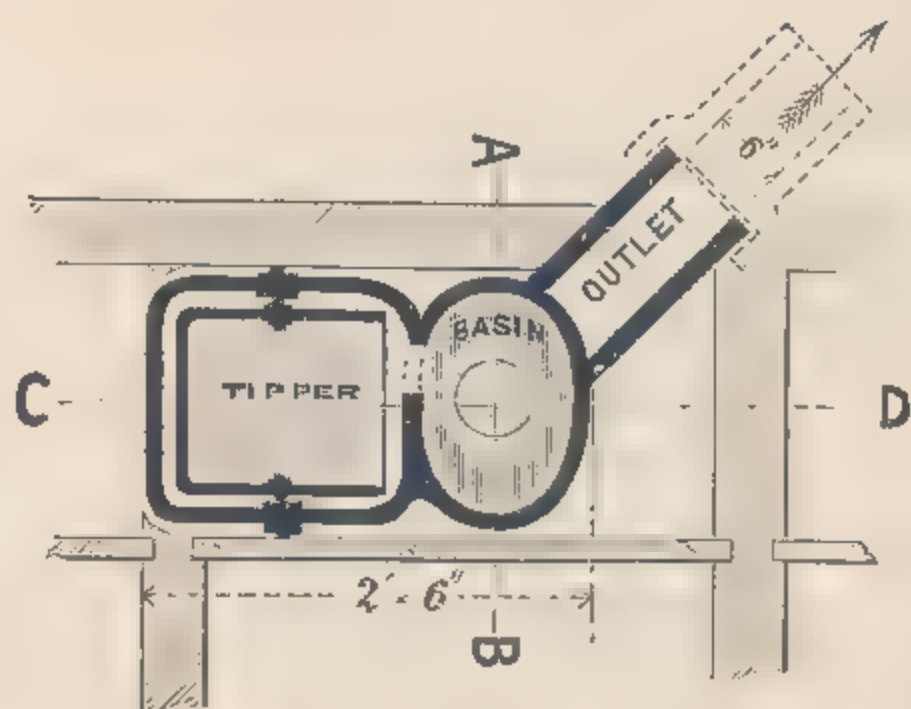
— HALF-INCH SCALE. —



SECTION ON LINE A.B.



SECTION ON LINE C.D.



PLAN.

## FRESH or with SLOP WATER

### For Mills, Weaving Sheds, Workshops, &c.

This Apparatus is well adapted for Water Closets in Ranges, but may also be used for single ones.

Fresh water is fed into the Tipper, and can be regulated by means of a small tap under the Seat. A dribble is found quite sufficient.

To prevent waste, water supply should be turned off when mill is closed.

Seats should be hinged and fastened with catch, or lock, to prevent the Tipper or the tap being tampered with.

**NOTE.**—**Special Closets** of this type, with back inlet for house drain, are also supplied.

**PRICES,** on Rails at Burnley, in  
Salt-Glazed Ware:—

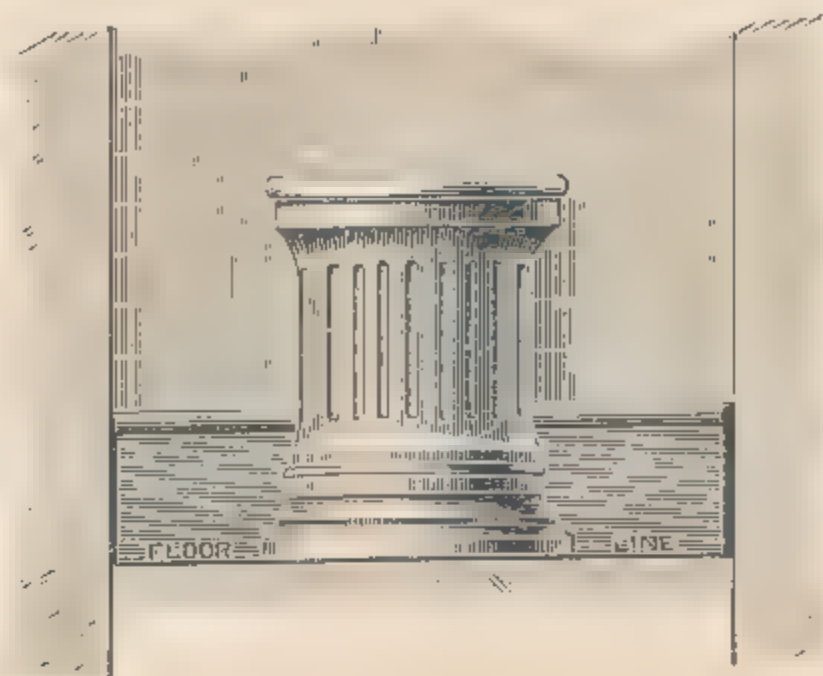
£1 8s. Od. per Closet, including Basin,  
Tipper and Trap.

**Special Closet**, as described, £1 10s. Od.,  
including Basin, Tipper and Trap.

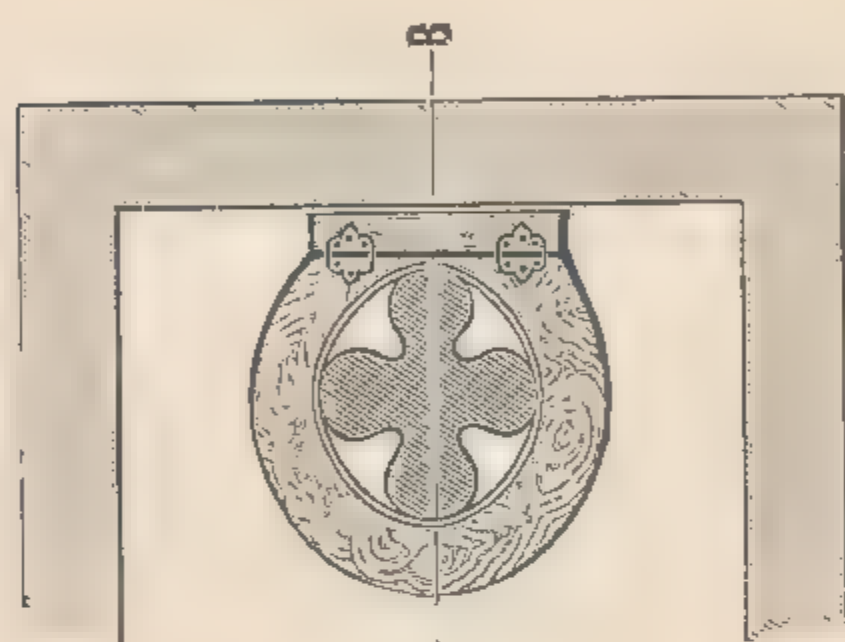
When insides are Enamelled, 20 per cent. extra will be charged. If with Stanford Joint between Basin and Trap, 1/- each extra

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

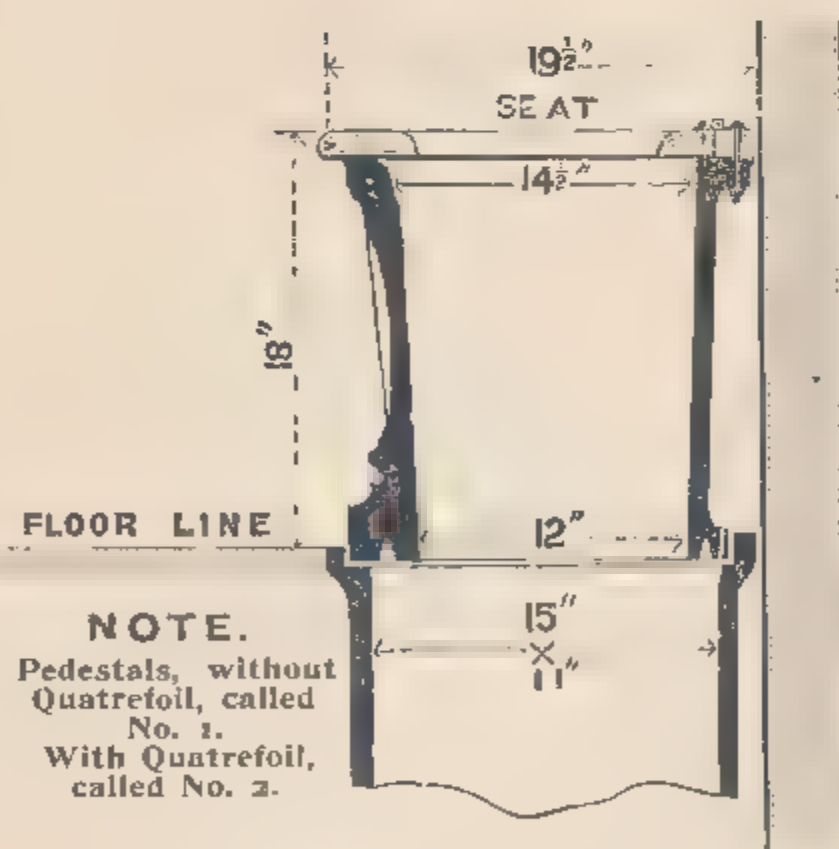




— ELEVATION. —



PLAN.



— SECTION ON LINE A.B. —

SCALE,  $\frac{3}{4}$ -inch to a foot.

# Ducketts' ★

— PATENT —

## ★ Pedestals

### For Slop-Water Closets & Latrines.

These Pedestals dispense with the Ordinary Flag Riser and Seat, and make a Neat Finish.


#### — Description. —

The Pedestals are of best Amber-Enamelled Ware.

The Seats are of best  $1\frac{1}{8}$ " pine, painted two coats and varnished.

The Hinges ( $2\frac{1}{4}$ ") are of polished brass, with brass pins, specially made and firmly secured to the Ware with brass bolts, and to the seats with brass screws.

No. 1 Pedestal is  $14\frac{1}{2}$ "  $\times$  11" at the top, and 12"  $\times$  9" at the bottom, and gives at least an inch projection all round to throw the water, &c., clear of the pipe below. See Section.

The No. 2 Pedestal has a Quatrefoil, the inside being tapered from the top to the Quatrefoil shape at the bottom, as in plan. The object is to prevent large articles, such as tins, &c., being thrown into the trap. 

#### — Advantages. —

1.—As the seat is hinged, the Closet can, with propriety, be used as a Urinal or Slop Sink.

2.—The Pedestal can be readily removed to give access to the Closet Trap.

3.—It has a better appearance than the ordinary flag riser and seat, and is more sanitary.

IN FIXING, the flange of pipe on which the Pedestal rests must be flush with floor, as shewn on drawing.

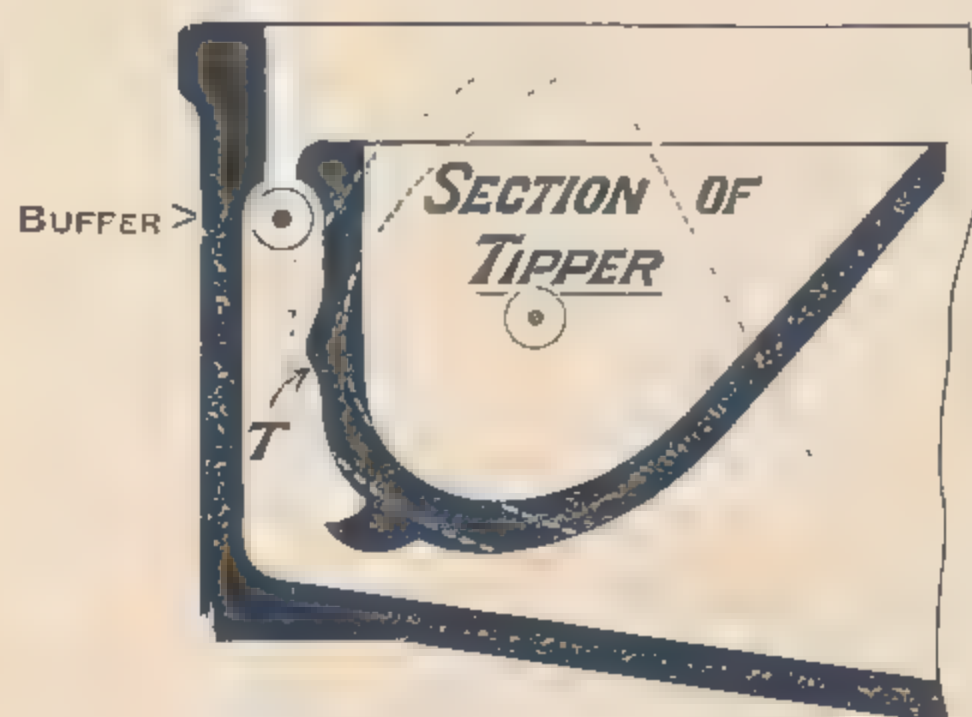
IN ORDERING, say whether No. 1 or No. 2 Pedestal is required.

#### PRICES, on Rails at Burnley, in Amber-Enamelled Ware:—

No. 1 with Painted and Varnished Hinged Seat complete	10s 6d.
No. 2 " " " " "	12s. 6d.
If White-Enamelled inside .....	Extra 2s. 0d.

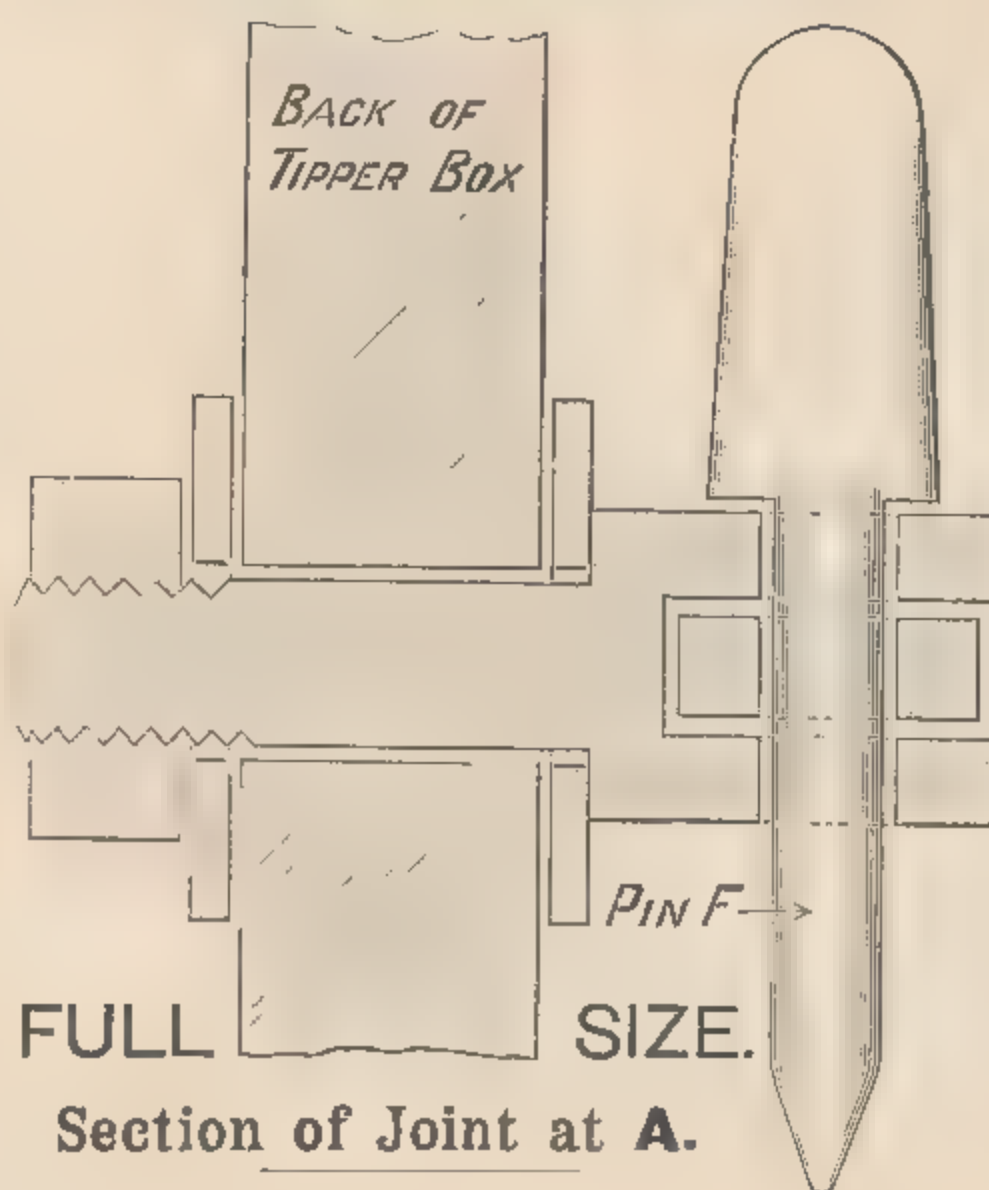
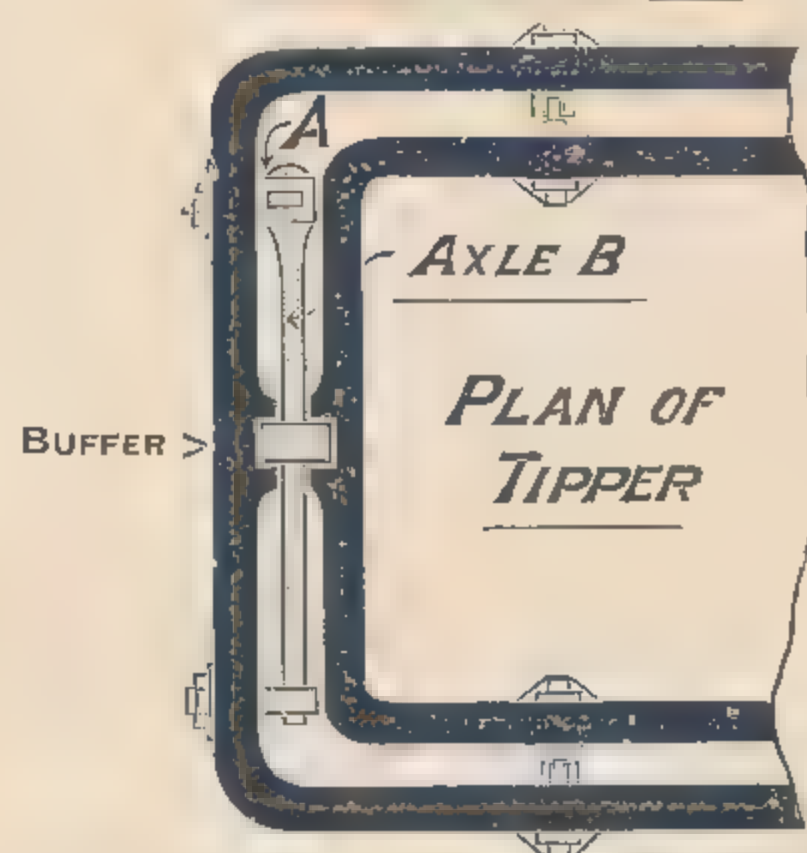
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**





PLAN AND SECTION  
SHEWING BUFFER IN POSITION.

— INCH SCALE. —



# DUCKETTS'

— IMPROVED —

## Patent Buffer

### FOR AUTOMATIC TIPPERS.

This BUFFER is a great improvement on those hitherto used.

The Rubber fits loosely on the Axle **B**, so that when the tipper tilts, the small projection **T** bears slightly against the Buffer, causing it to revolve somewhat. Concussion is thereby distributed instead of being always at one place as heretofore.

The Buffer has an aluminium lining to facilitate movement and to prevent any chemical action of rust or verdigris injuring the rubber.

Axle **B** may be released by removing Pin **F**, so that a new Buffer can easily be fixed in position when required.

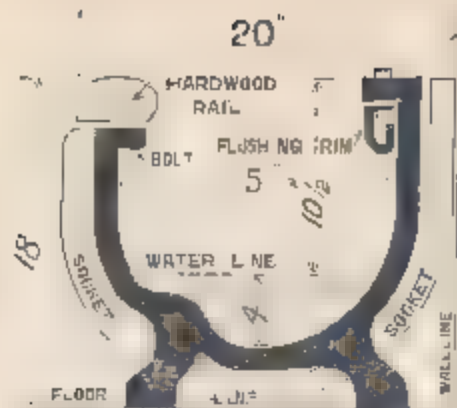
By these arrangements renewals are rarely needed, but, when required, are readily and inexpensively made.

**NOTE.**—Buffers can be sent loose if required, and put into position after closets are fixed, thereby reducing the liability of removal by children or mischievous persons.

The Improved Buffer is supplied to Automatic Tippers without any extra charge, and Rubbers for renewals at 6d. each.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**





ENLARGED CROSS SECTION  
ONE-CH. SCALE

# DUCKETTS' SYPHONIC.

IMPROVED  
PROTECTED

## Description.

**These Closets** are made of highly-glazed ware. They possess important advantages over others on the market, and are efficient and sanitary.

**The Trough** is emptied by *syphonage* and automatically re-charged with clean water.

**The Cistern** supplied for this purpose is of glazed stoneware, or of galvanized iron, and constructed on the latest syphonic principles. All the water is used for cleansing and re-filling the trough, and none wasted in starting syphonage. Capacities of cisterns vary to suit troughs.

**The Special Flushing Rim and Conduit**, besides conducting water for flush, acts as a flushing rim for cleansing that part of the trough which is liable to soiling.

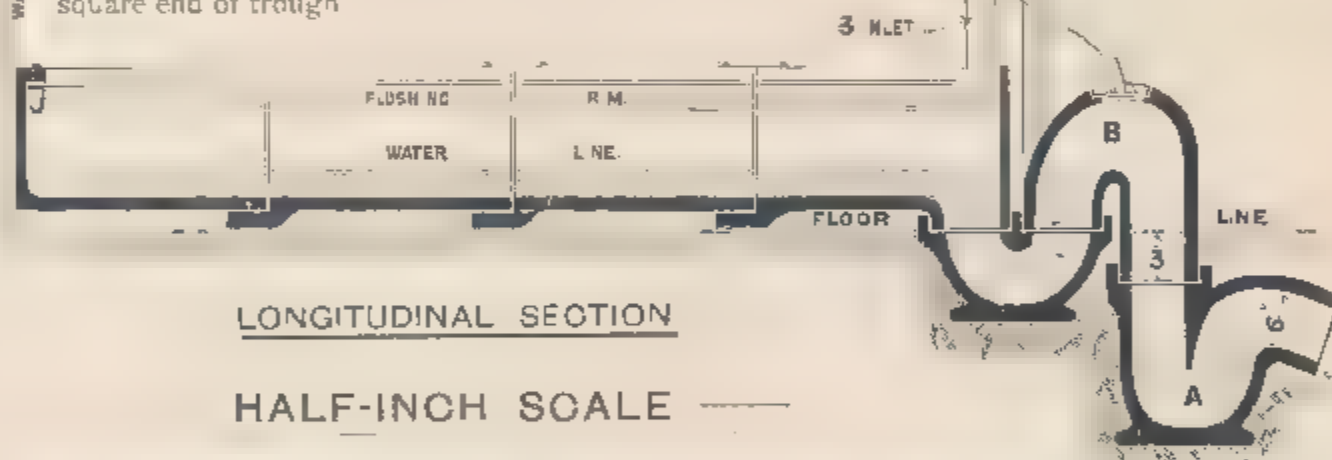
**A Hard Wood Rail**  $3\frac{1}{2} \times 2$ ", with bolts for fixing same, are provided for front of trough, as shown on section.

**Recesses for Cramps** are prepared in top of trough, and suitable cramps are supplied.

The trough may (if required) fit close against end walls, as neither inlet nor outlet project outside the square end of trough.

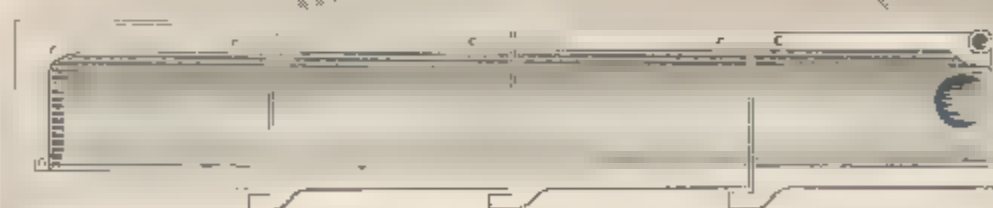
**In FIXING**, care should be taken to leave the trough level, and to caulk and make all joints watertight.

An opening under each joint should be left in the floor for a short time after trough is charged with water to test joints.



LONGITUDINAL SECTION

HALF-INCH SCALE



PLAN.

CHEAP,  
EFFICIENT,  
AND  
STRONG.

## Advantages

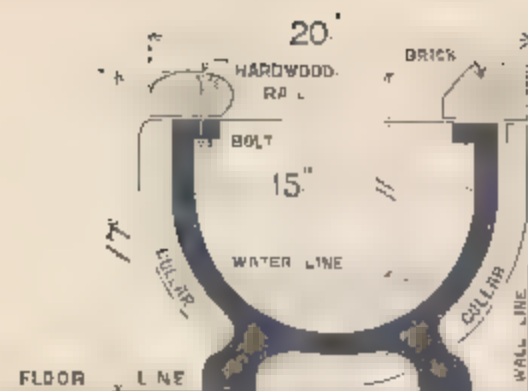
1. **Flush is automatic and powerful.**
2. **Back of trough is well cleansed.**
3. **Splashing prevented during flushing** as the water does not flow in a rush, consequently the nuisance at this time is greatly reduced.
4. **The water service** measures 13 inches wide, and at the deepest part is 4 inches.
5. **Deep water seal.** This not only prevents foul air passing through from outlet, but it prevents large articles passing from trough into the outlet drain.
6. **No waste of water** to produce syphonage. It is all used for flushing and re-charging trough.
7. **Syphonage in trap A** stopped at right moment, after which the trough is left re-charged with clean water.

**In Ordering**, state exact length over all. **Stock Lengths** of the pieces which form the trough are 3ft. and 2ft. 2in., measured from joint to joint when fixed, but any required length of complete trough can be supplied as required.

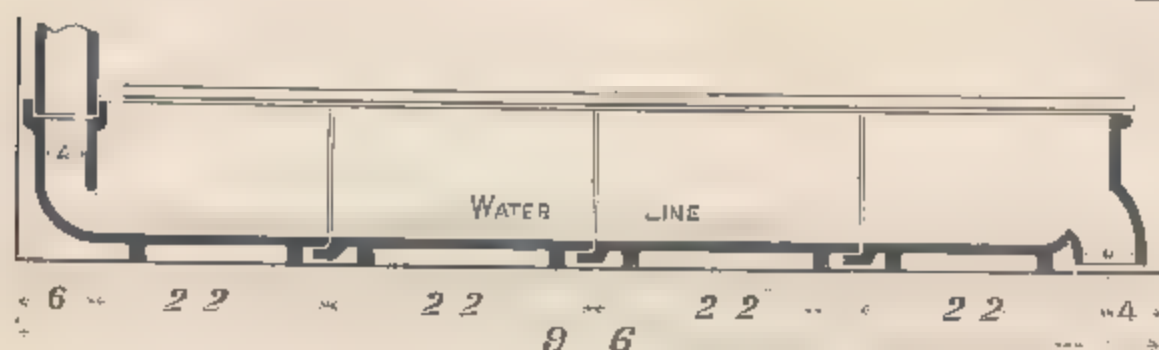


# TROUGH CLOSETS.

## NON-SYPHONIC.



ENLARGED CROSS SECTION.  
INCH SCALE.



LONGITUDINAL SECTION.

HALF-INCH SCALE

These Troughs are made of like material and in same lengths as those for Syphonic arrangement.

The instructions as to **Fixing** and **Ordering** given on previous page apply also to this arrangement

### PRICES on Rails at Burnley (in Salt-Glazed Ware):

<b>SYPHONIC ARRANGEMENT</b> , as illustrated, with Galvanized Iron or Stoneware Automatic Flushing Cistern and Brackets .....	£ 8 15 0
<b>Extra</b> for each additional lineal foot of Trough, including extra capacity of Cistern .....	0 15 0
<b>NON-SYPHONIC ARRANGEMENT</b> , as illustrated with Galvanized Iron or Stoneware Automatic Flushing Cistern and suitable Brackets .....	7 0 0
<b>Extra</b> for each additional lineal foot of Trough, including extra capacity of Cistern .....	0 12 0
If Flushing Run is included in Non-Syphonic Arrangement an addition of 1s. 6d. per lineal foot is made on above prices.	
If Wood Rail is omitted, a reduction of 6d. per lineal foot is made from above prices.	
<b>Extra</b> , if Troughs are in Amber Enamelled Ware per lineal foot .....	0 3 0

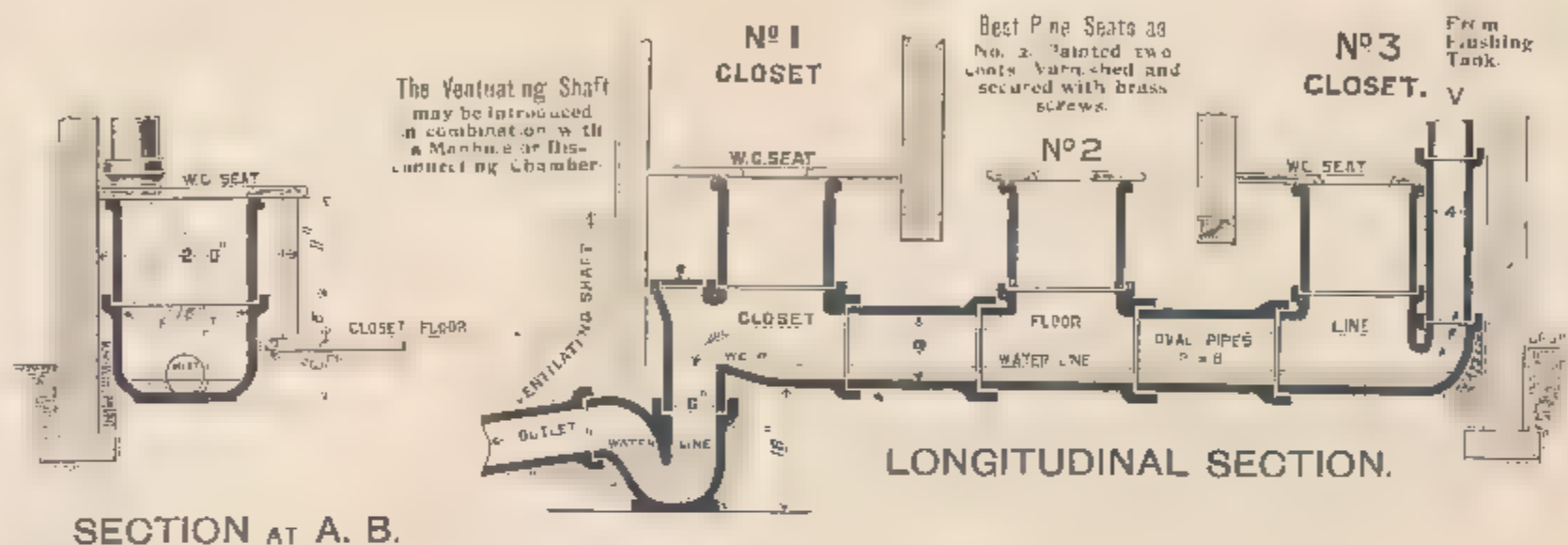
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS' PATENT

*Suitable for Schools, Mills, Old Property,*

For particulars of Flushing Tanks see pages 30 and 31.



NOTE. The distance from Seat to Water Line is shown as inches, which is recommended as preventing splashing. It may however be varied if required.

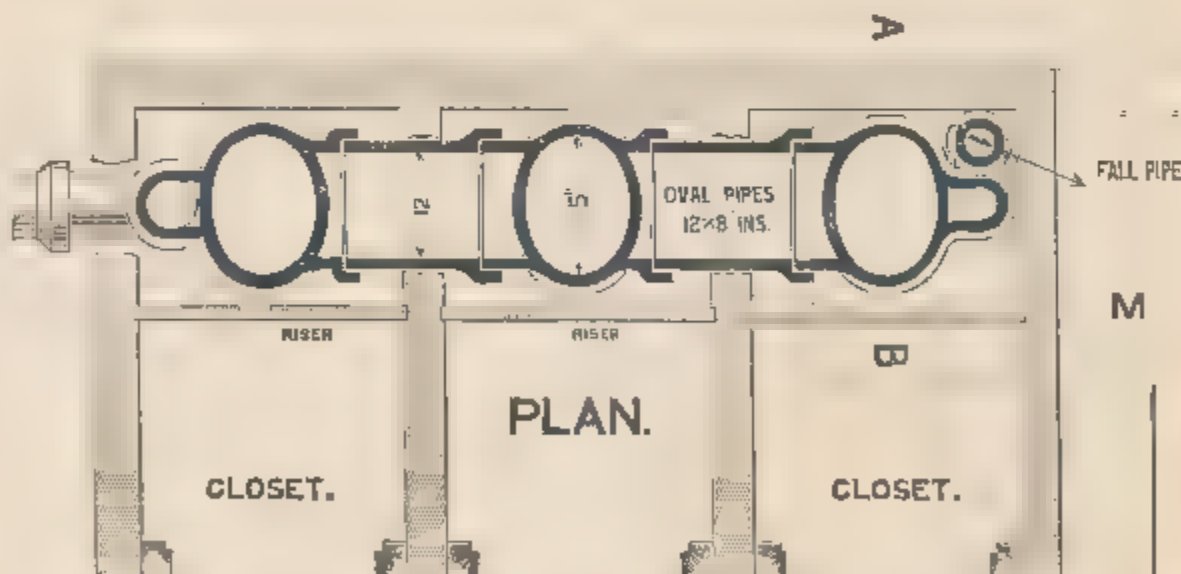
FLUSHING TANK may be fixed above the seat or in position marked M on plan.  
For particulars of Flushing Tanks see pages 30 and 31.

— HALF INCH SCALE. —

## Advantages.—

1. A Range of 4 Closets can be flushed effectually with a less quantity of water than usual by using a 10 gal. on Automatic Flushing Tank, as described on page 30. The cleansing of the oval pipes is more effectual than in circular ones (see page 23)

2. The volume of water to be displaced when flushing is minimised by the oval pipes.



**NOTE.** The special attention of Architects is drawn to these Latrines as being economical, sanitary, efficient, and very largely used.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# LATRINES FLUSHED WITH CLEAN WATER.

*&c., where Closets are in Long Ranges.*

## Description.

The Oval Pipes, 2-ins. x 8-ins., have deep and wide sockets to leave ample room for cement or other jointing material. The pipes are provided with a weir at the outlet end, so that a sufficient quantity of water is retained in them after each flush. Pipes 12-ins. in diameter have generally been used for Latrines, but the Oval Pipes of these dimensions give a stronger flush, because, with nearly the same surface of water, there is a much less volume of water to displace, as will be seen by the accompanying sections.



Soiling of back of Pipe is possible owing to the vice socket position, but the length of the pipe from flushing tank may be of sanitary ware, or iron.

**IN FIXING.** When the foundations are defective a good bed of concrete should be laid under the oval pipes and basins. These should be fixed level, so that water will stand in them as shewn. When circumstances permit, it is well to lay these pipes before division walls are built.

All Joints should be made perfectly water-tight.

It is an advantage to fix the Flushing Tank in a separate erection, as shewn at Model plan, but when circumstances will not permit this, it may be fixed over the set, see page 30, and should be set perfectly level and firm, and should be supported on light wrought iron girders in preference to wood. See page 30.

**IN ORDERING.** Say whether Flushing Tank No. 1, 2, or 3, is required. See pages 30 and 31. Nos. 2 and 3 can be supplied in Ware or Galvanized Iron, as preferred; No. 1 of Ware only. Prices are the same whether Galvanized or Ware.

5-gallon Flushing Tank, for 2 seats.				These Flushing Tanks are very	
10	"	"	3 to 4 seats	sanitary	and
20	"	"	5 to 8 "	easy	to
35	"	"	9 to 15 "	clean	and
50	"	"	very special cases	more	sanitary

Supply figured sketch showing width of Closets and thickness of walls; also position of Flushing Tank.

Say whether Pine Seats (as illustrated on Closet No. 2, page 32) at an extra cost of 5/- each, or Fluted Pedestal and Seat, (as described on page 18) are required. If Pedestals are required, the sockets of pipes must then be fixed level with floor of W.C., as shewn on page 18. Also state heights of seats above floor line.

## PRICES.

Including Basins, Connecting Pipes, Vertical Pipes, and Trap, but no ordinary drain or fall pipes.

For prices of Flushing Tanks see pages 30 and 31.

For Seats, in Salt Glazed Ware	£	s	d	For Seats, in Salt Glazed Ware	£	s	d
4	2	5	0	10	7	10	0
5	3	0	0	12	8	5	0
6	3	15	0	14	9	0	0
7	4	10	0	16	9	15	0
8	5	5	0	18	10	10	0
9	6	0	0	20	11	5	0
10	6	15	0				

Delivered on Rails at Burnley.

### OPTIONAL

### EXTRAS:

With Painted and Varnished Pine Seats, as per Closet No. 2, page 32 5/- per Closet.  
 If with Enamelled Fluted Pedestals and Seats, as per Model Plan, and Varnished High Back Seats are required (see page 18) 10.6  
 If with Seats and Pedestals between outlet and trap 1/-  
 If with plain Pedestals and fixed Pine Seats 8.6  
 If basins are required Enamelled, 20 per cent. extra will be charged.  
 When more than 3-feet of Oval Connecting Pipe is required, 1.6 per extra foot.

**WEIGHT** For 3 Seats, exclusive of ordinary drain pipes and fittings.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

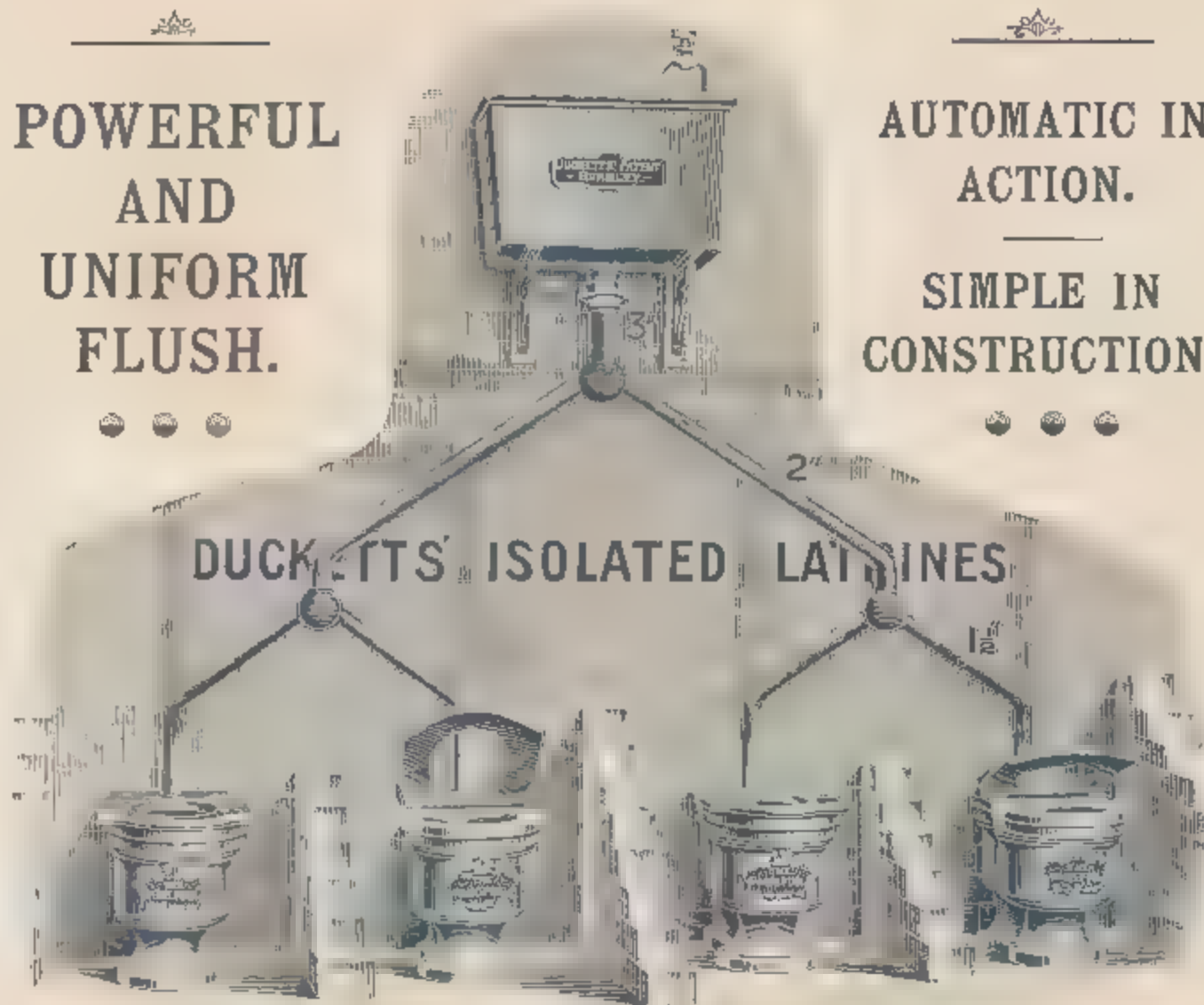


# DUCKETTS' PATENT ISOL

**POWERFUL  
AND  
UNIFORM  
FLUSH.**

**AUTOMATIC IN  
ACTION.**

**SIMPLE IN  
CONSTRUCTION.**



These Isolated Closets consist of Duckett's Patent "Whirlpool" Closets fixed to a pedestal, flushed automatically by a cistern kept at a constant level. They are of a very strong and durable construction.

The Pedestal weighs about 90 lbs., and has a broad base. The sides of Basin are nearly perpendicular, and the water surface is  $\frac{1}{2}$  x of the pedestal base, in which is a hole more than the seat hole area, thus minimising the possibility of soiling.

The Seats are of best pine, hinged or fast as may be required, and can be supplied either painted and varnished or plain. When hinged, the seat is raised and the seat being fixed to the pedestal.

In Flushing, water is discharged through the flushing rim with great force, it swirls round the sides of the basins, and effectually cleanses them. The swirling or "Whirlpool" motion produces a powerful and effective flush.

The Cisterns are automatic in action, and vary in size according to the number of Closets to be flushed. J. Duckett and Son, Ltd., recommend a flush of 4 gallons per Closet.

If preferred, strong Ware Flushing Pipes may be used instead of lead pipes.

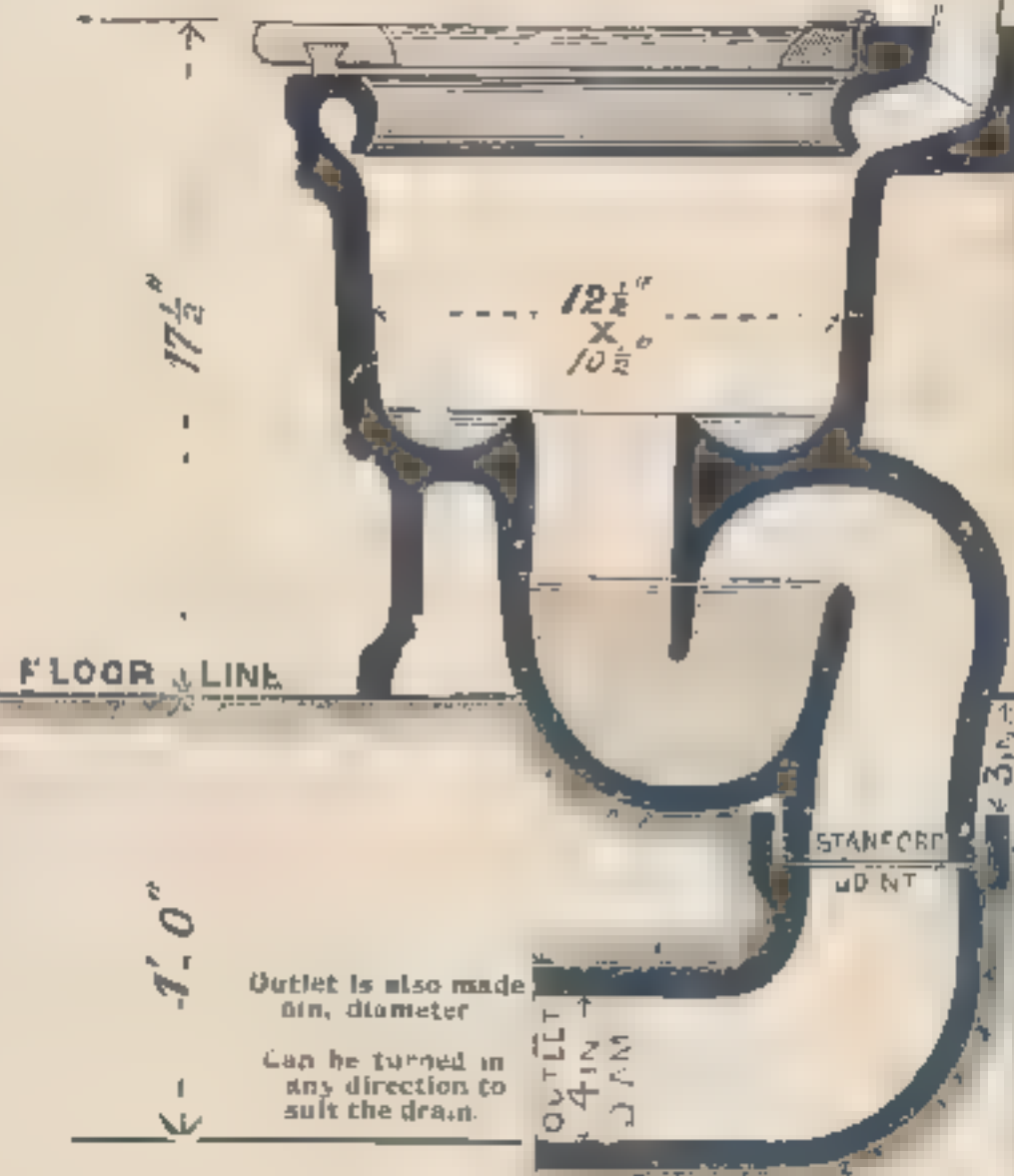
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# ATED CLOSETS IN RANGES.

SECTION OF CLOSET,

ONE-EIGHTH FULL SIZE.



## Advantages

Large Water area in basin.

No brackets or nozzle required for Closets.

Little liability of breakage.

Exceptionally powerful flush.

Trap easy of access.

**Prices on Rails at Burnley,** (shown on Catalogue) Standard Price for Seats as above. Prices for Seats as above. Automatic Flushing Tanks (of Capacities equal to 4 gallons per Closet) and Brackets for same.

	£	s	d.		£	s	d.
For 3 Seats as above	5	15	0	For 9 Seats as above	14	15	0
" 4 " "	7	5	0	" 10 " "	16	5	0
" 5 " "	8	15	0	" 11 " "	17	15	0
" 6 " "	10	5	0	" 12 " "	19	5	0
" 7 " "	11	15	0	" 13 " "	20	15	0
" 8 " "	13	5	0	" 14 " "	22	5	0

Extra if in Amber Enamelled Ware, 20 on above prices

Do. for each Seat if hinged, painted and varnished

0 2 0

Strong Lead Pipes for four seats prepared as illustrated

2 5 0

Strong Enamelled Ware Pipes for four seats

0 15 0

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



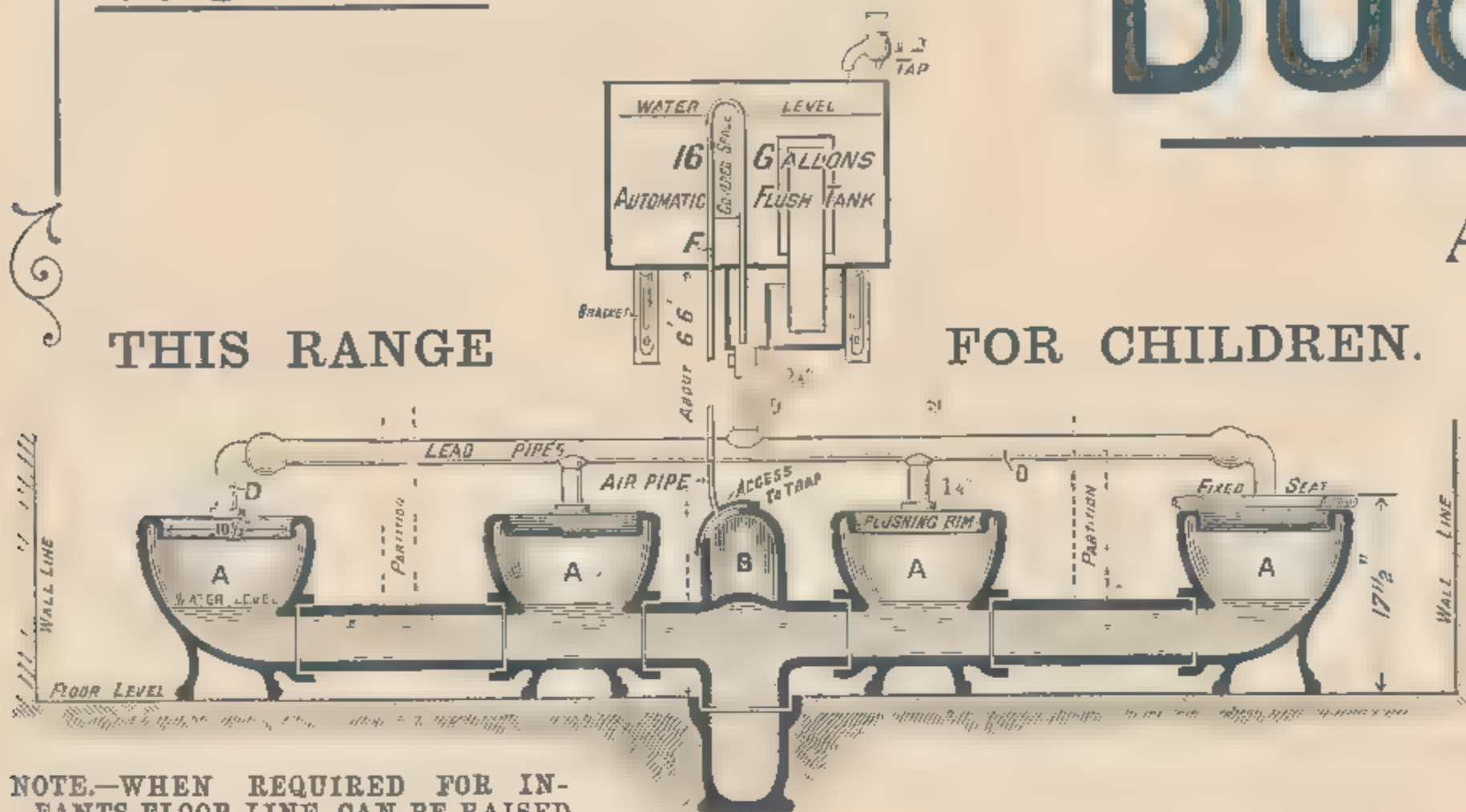
PROTECTED.

DUCKETTS'

AUTOMATICALLY

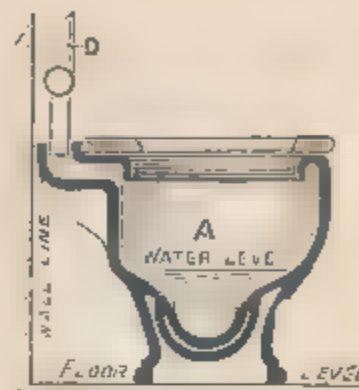
THIS RANGE

FOR CHILDREN.

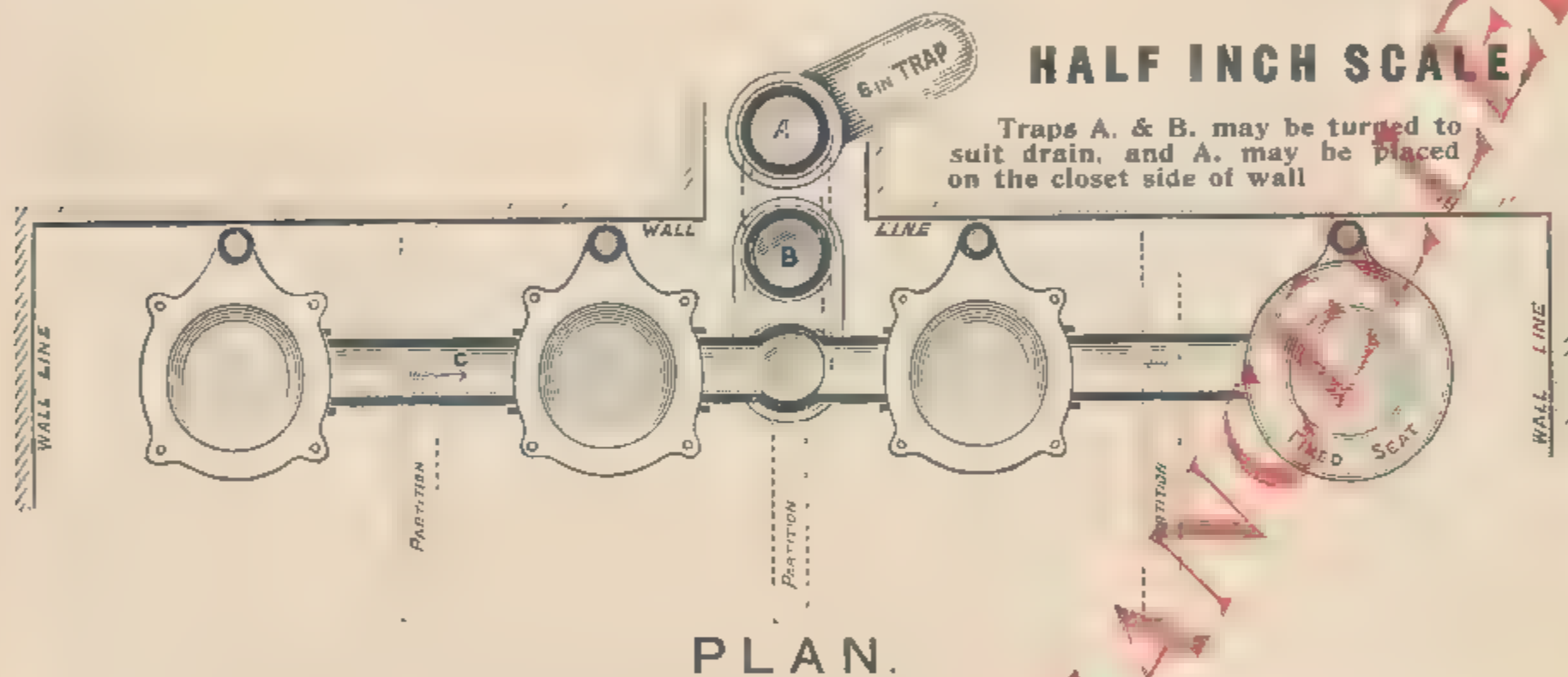


NOTE.—WHEN REQUIRED FOR INFANTS FLOOR LINE CAN BE RAISED TO SUIT REQUIREMENTS

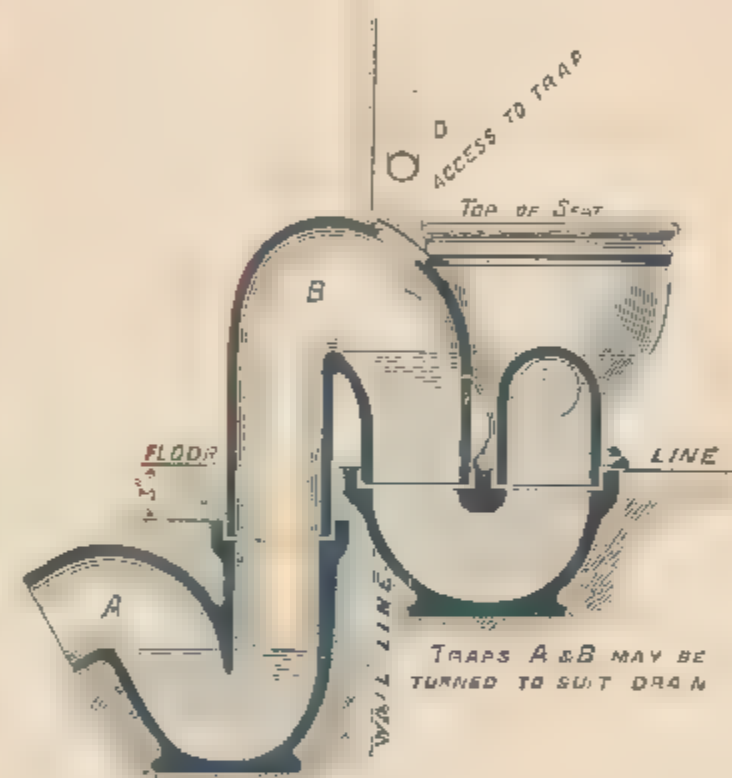
ELEVATION.



SECTION THROUGH BASIN.



PLAN.



SECTION THROUGH TRAP.

## Description

THESE CLOSETS are constructed on the latest principle, they embody all the good points of other Isolated Latrines, and possess important advantages over them.

The Basins are in pedestal form, constructed of highly-glazed ware, and handsome in appearance. Those for children have a water area  $13" \times 12"$ , and those for Adults  $14\frac{1}{2}" \times 12"$ . The water line in former is 9" below top of seat and in the latter  $10\frac{3}{4}"$ .

Pipe F is to promote syphonage and to admit air automatically to stop syphonage in cistern at the proper moment. A stop-tap for emptying range is provided when required.

The Cistern is made of glazed stoneware or galvanised iron as preferred, and is supplied with the best fittings. It is automatic in action, and of sufficient capacity to thoroughly cleanse the basins and to re-charge them with clean water after flushing.

**NOTE.**—The cost of water for effectually flushing a range of closets as illustrated should not exceed 4d. per week with water costing 10d. per 1,000 gallons and when supply is shut off at nights and week-ends. By actual test a range as illustrated with 24 flushes per week has been found sufficient for 200 persons.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETT'S

120 West 120th St.

TELEGRAMS:

Telephone No. 76.

SUITABLE FOR



**THESE CLOSETS** are constructed on the latest principle: they possess all the good points of other Isolated Closets, and have important advantages over them.

**The Basins** are in pedestal form of highly enamelled steel and have a strong flushing action. The water is forced out of the basin by a strong jet of water. The basin is made of steel and is strong and durable.

**The Connecting Pipes** between basins are of strong and durable material and are of standard size.

**The Outlet Trap** may be placed in the main drain pipe and will prevent any foul air from entering the room. It is made of steel and is strong and durable.

**The Cistern** is a strong and durable vessel, made of steel, and is of standard size. It is fitted with a float valve and a stop tap, and is strong and durable.

**The Flushing Pipes** are of standard size and are made of steel. They are strong and durable and are fitted with a stop tap.

The entire system is made of steel and is strong and durable. It is fitted with a stop tap and is strong and durable.

J. DUCKETT & SON, LTD., Manufacturers of Sanitary Ware, BURNLEY, LANCASHIRE.



# DUCKETTS' PATENT ISOLATED CLOSET FLUSHING SYSTEM

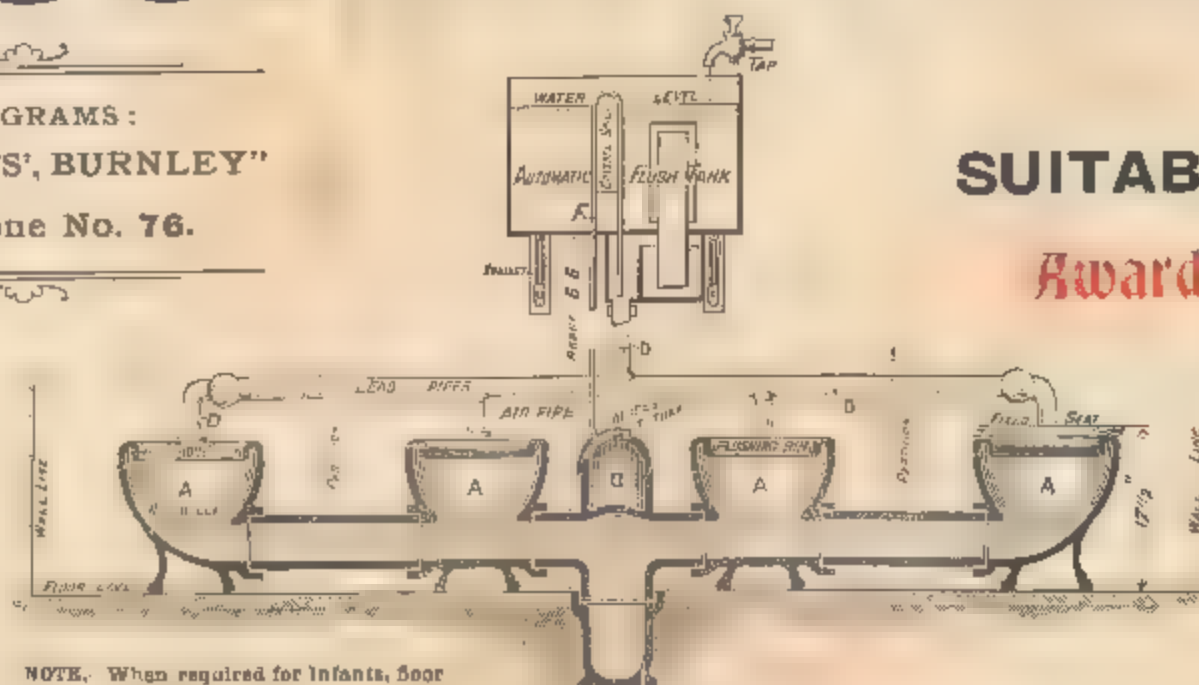
TELEGRAMS:

"DUCKETTS', BURNLEY"

Telephone No. 76.

SUITABLE FOR S

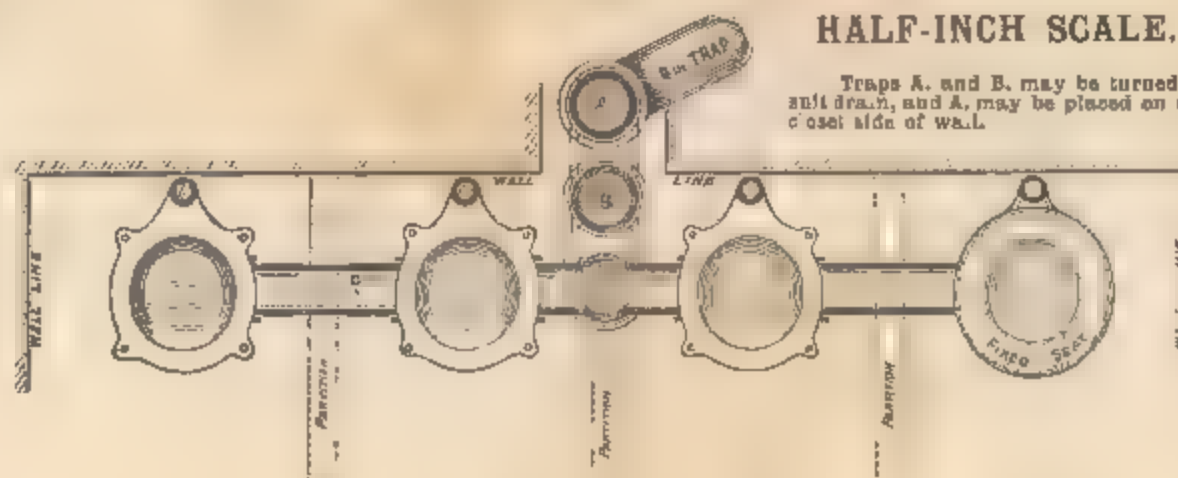
Awarded the Bronze



NOTE. When required for Infants, Soap  
line can be raised to suit requirements.

ELEVATION.

HALF-INCH SCALE.



PLAN.

## Description

**THESE CLOSETS** are constructed on the latest principle they possess all the good points of other Isolated Closets in Ranges, and have important advantages over them

**The Basins** are in pedestal form of highly enamelled stoneware, and handsome in appearance. The standing water surface is 13 inches by 2 inches and 9 inches below top of seat. Each basin has a strong flushing rim with vertical inlet.

**The Connecting Pipes** between basins are extra strong and can be supplied of any required length.

**The Outlet Trap** may be placed in the middle of range (as shown in plan) or in any other required position. There is ample space to fix it between the range and the back wall. Special basin is supplied when outlet is preterred under sink.

**The Cistern** is of strong galvanised iron, but can be supplied of enamelled stoneware if preferred, and either with automatic or hand flushing apparatus. All fittings are of the best quality. The cistern supplied is of sufficient flushing capacity to thoroughly cleanse the basins and to recharge them with clean water after flushing.

**The Flushing Pipes** are of strong cast iron, painted or galvanised as required, and when sent out are all marked ready for fixing.

A stop tap is provided in all cases provided with a stop tap, so that the range may be syphoned empty when required.

J. DUCKETT & SON, LTD., Manufacturers of Sanitary Ware, BURNLEY, LANCASHIRE.

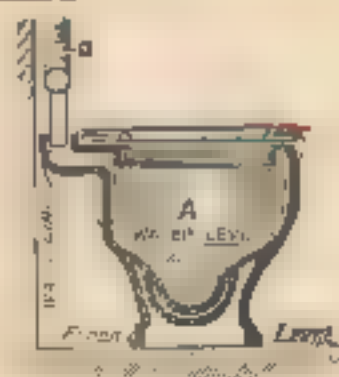


# RELATED CLOSETS IN RANGES

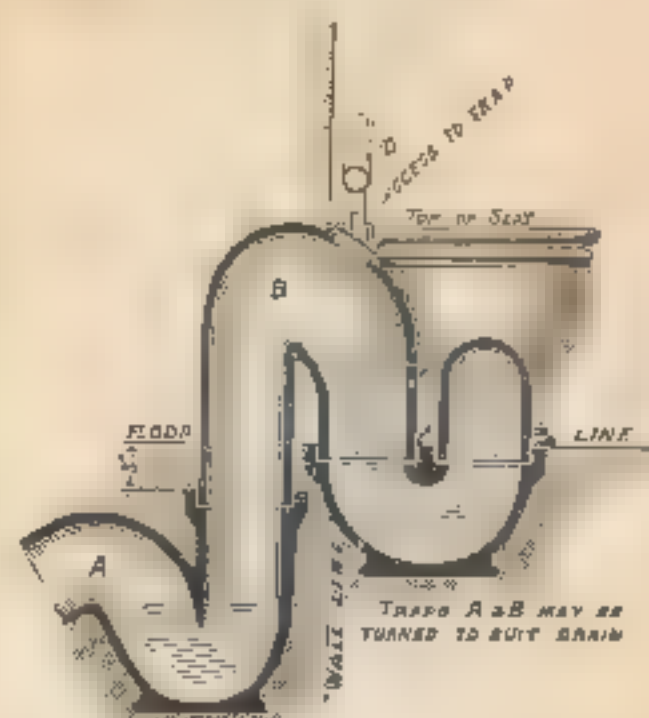
## SHED BY SYPHONIC ACTION.

SCHOOLS, MILLS, BARRACKS, INSTITUTIONS, &c.

Medal of the Sanitary Institute, Southampton Exhibition, 1899.



SECTION THROUGH BASIN



SECTION THROUGH TRAP

### Advantages

1. There is no waste of water in starting syphonage, as all the water passes through the basins.
2. The water level in basins is not raised to produce syphonage.
3. Syphonage in range ceases when basins are cleansed, but a sufficient supply of clean water re-charges them after each flush.
4. The pedestals and connecting pipes are made extra strong.
5. A minimum quantity of water required for efficient flushing.
6. The range can be readily emptied of water when not in use. Damage by frost thereby prevented.
7. No india rubber cones required for connections between flushing pipes and basins.

### Instructions for Fixing

The basins must be fixed level with each other, and all joints made perfectly watertight and airtight. There must be no trap between that marked (A) and main sewer or disconnecting chamber.

Experienced men sent out to fix ranges when required.

**In ordering** state lengths between basins, also height from floor to top of cistern, so that the exact lengths of connecting and flushing pipes may be sent.

### Prices on Rails at Burnley,

Including pedestals, connecting pipes and outlet trap in highly enamelled amber stoneware, galvanised iron syphonic flushing cistern (automatic or hand flushed), painted wrought iron brackets and strong painted cast iron flushing pipes, air extractor pipe and stop tap for emptying range also fixed varnished pine seats, all complete ready for fixing:

	£	s.	d.		£	s.	d.		£	s.	d.
For 2 seats . . . . .	8	0	0	For 5 seats . . . . .	16	0	0	For 8 seats . . . . .	23	10	0
" 3 " . . . . .	11	0	0	" 6 " . . . . .	18	10	0	" 9 " . . . . .	26	0	0
" 4 " . . . . .	13	10	0	" 7 " . . . . .	21	0	0	" 10 " . . . . .	28	10	0

**Extra** for varnished bench, instead of pine seats . . . . . 6 - per seat.  
 " if flushing pipes are galvanised instead of painted . . . . . 5 6 "  
 " if basins are white enamelled inside . . . . . 6 - per basin.

SPECIAL QUOTATIONS GIVEN FOR LARGE QUANTITIES.

J. DUCKETT & SON, LTD., Manufacturers of Sanitary Ware, BURNLEY, LANCASHIRE.



# ATED CLOSERS IN RANGES

## UTION

1900

### Instructions

1. There is no waste of water in starting siphonage, as all the water passes through the basin.
2. The water level in basin is not raised to produce siphonage. The water in range ceases when basin is cleaned, but a sufficient supply of clean water is always present for each flush.
3. The pedestal and cone and pipes are made extra strong.
4. A minimum quantity of water is required for efficient flushing.
5. The range can be readily emptied of water when not in use. Damage by frost thereby prevented.
6. No India rubber cones required for connections between flushing pipes and basins.

### Instructions for Fixing

The range is fixed to the wall by a bracket and a pin into the wall. The range must be fixed between the wall and the pedestal of the siphonage.

Experienced men sent out to fix ranges when required.

In ordering, give the number of the range and also the size of the floor to top of the range. The range is fixed to the wall and the pedestal is fixed to the floor.

### on Rails at Burnley.

Siphonage flushing system (automatic or hand flushed) painted wrought iron brackets and strong painted cast iron flushing pipes, an extra stop tap for emptying range. Also fixed varnished pine.

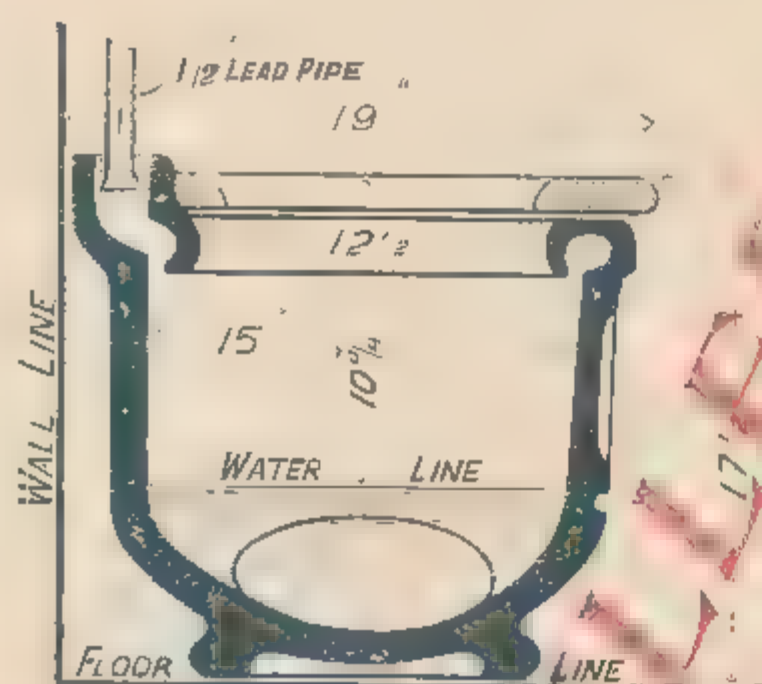
For 2 seats	3 0 0	4 0 0	5 0 0	6 0 0	7 0 0	8 0 0	9 0 0	10 0 0
1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe	1. 1/2 inch pipes for 1/2 inch of pipe
2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe	2. 1/2 inch pipes for 1/2 inch of pipe



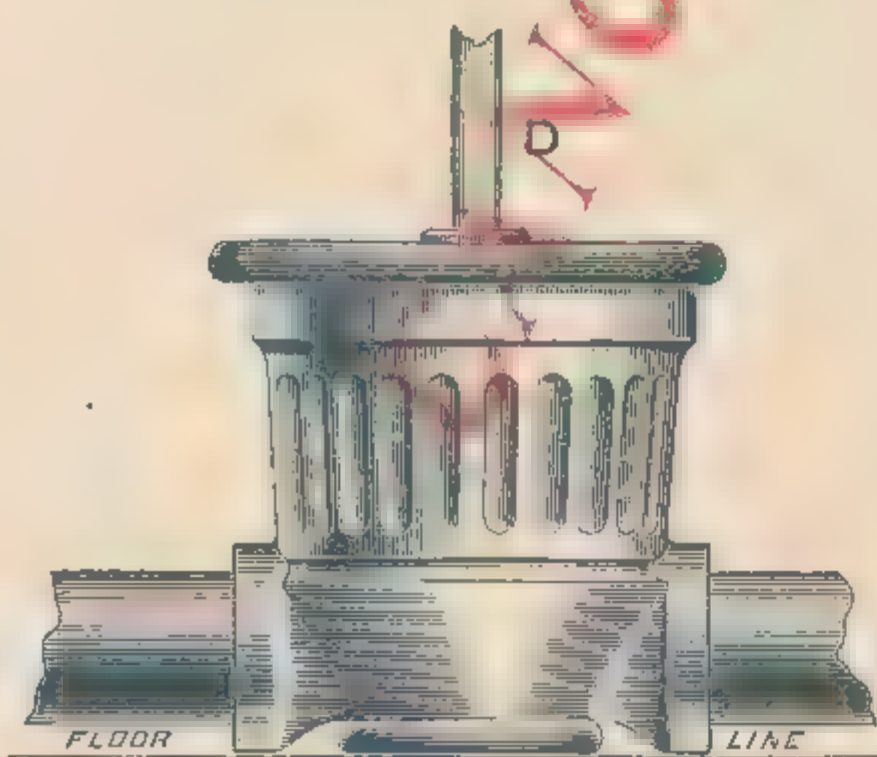
# Isolated Closets in Ranges

FLUSHED BY SYPHONIC ACTION.

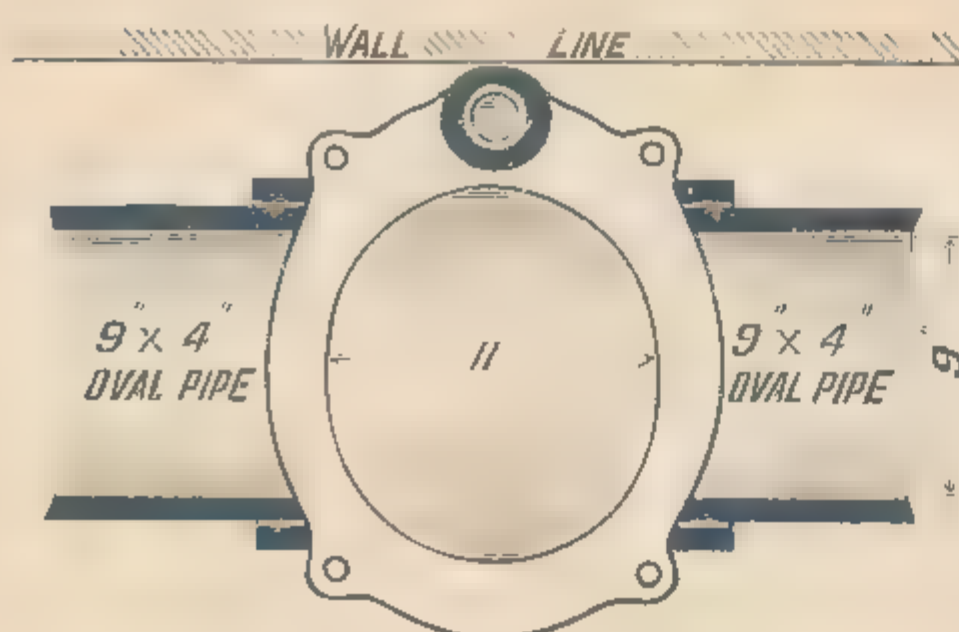
FOR ADULTS.



SECTION.



ELEVATION.



PLAN.

SCALE—INCH TO A FOOT.

## — Advantages —

- 1.—There is no waste of water in starting syphonage, as all the water passes through the basins.
- 2.—The normal water level in basins is not raised to produce syphonage.
- 3.—Syphonage in range ceases when cistern is about half empty, after which the basins are re-charged with remainder.
- 4.—The pedestals and connecting pipes are made extra strong.

## Instructions for Fixing

The basins must be fixed level with each other, and all joints made perfectly watertight. There must be no trap between that marked A and main sewer.

## Prices' on Rails at Burnley, in Salt-Glazed Ware,

Including Stoneware Pedestals as illustrated, Connecting Pipes, Outlet Traps, Automatic Syphon Flushing Cistern, and Brackets:—

	£	s.	d.		£	s.	d.
For 3 Seats .....	5	15	0	For 7 Seats .....	11	15	0
„ 4 „ .....	7	5	0	„ 8 „ .....	13	5	0
„ 5 „ .....	8	15	0	„ 9 „ .....	14	15	0
„ 6 „ .....	10	5	0	„ 10 „ .....	16	5	0

If in Amber Enamelled Ware, 20% extra on above prices.

Extra for fixed Plain Pine Seats .....5s. 0d. each.

NOTE.—Flushing Pipes D.D are not included in above prices

In ordering state which form of Basin is required, and whether Stoneware or Galvanized Iron Cistern is to be sent.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

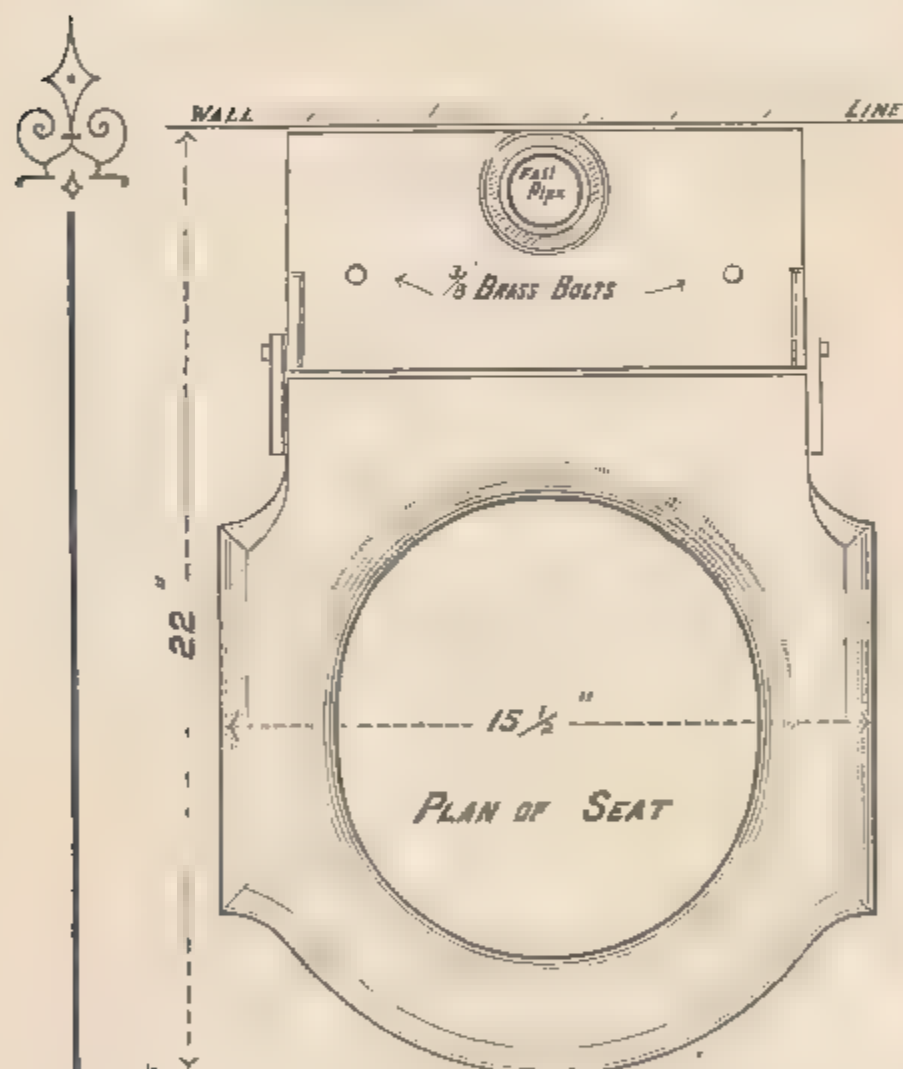




# DUCKETTS' PATENT W.C.

"The CLENCHER" No. 1.  
SUITABLE FOR OUTSIDE W.C'S.

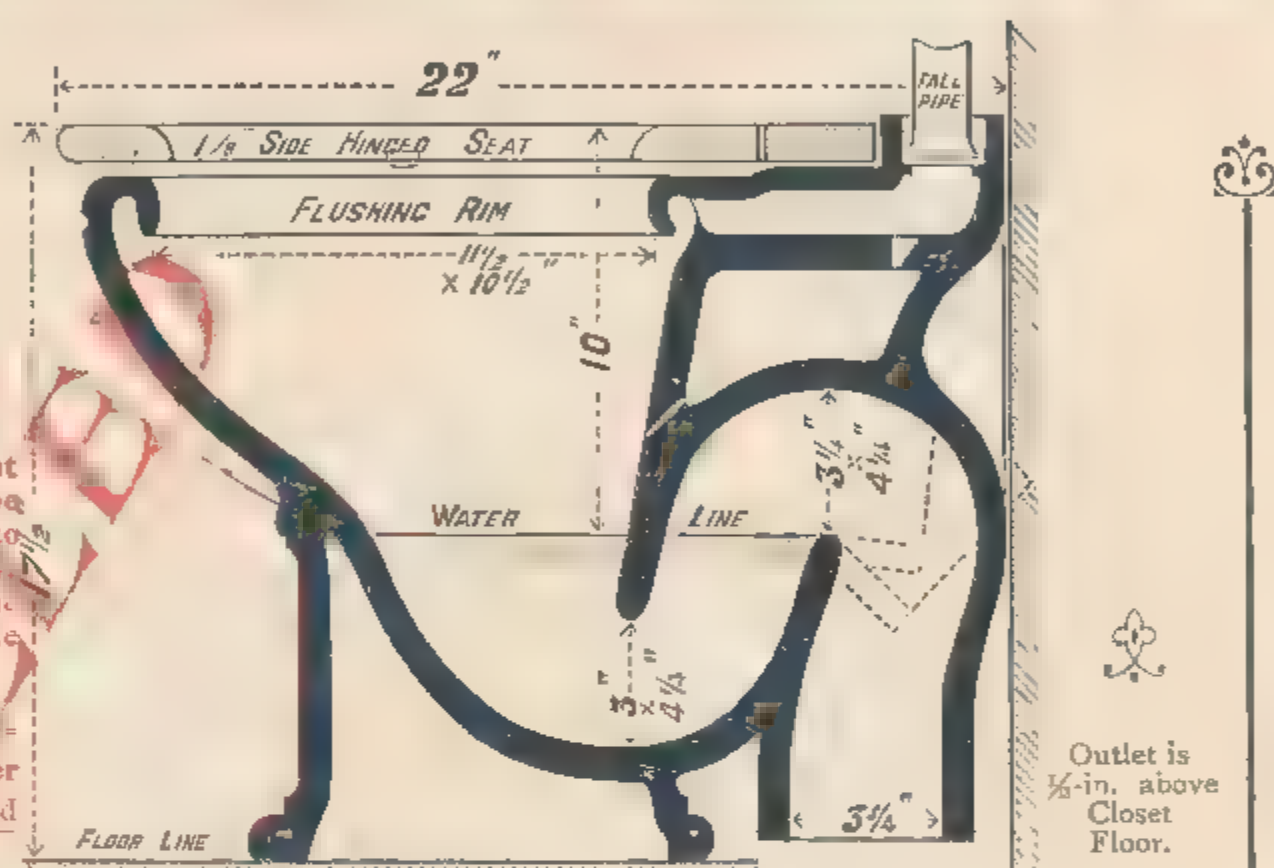
AWARDED THE BRONZE MEDAL OF THE  
SANITARY INSTITUTE, LEEDS EXHIBITION, 1897.



## Instructions to Plumbers

Fall-pipe should dip about an inch below the ware, and be made slightly bell-mouthed to form a rest for cement or putty. The latter can be used when the end of pipe is made to fill the opening.

In order to secure best results, one of Ducketts' Plunger Cisterns should be connected with this Closet.



SCALE: 1 1/2 INCHES TO A FOOT.

**DESCRIPTION.**—This Pedestal Closet is self-contained. The Trap has a 2-inch seal, and is of such form and construction as to give the best results.

The Flushing Rim is on the most approved principle, and the two oblique channels connecting it with the fall-pipe are an important feature in this Closet. No shield to flushing rim, consequently less fouling. No rubber required for nozzle.

The Seat is hinged to a back rail, which is bolted to the ware, and has strong polished brass side hinges, no brackets being required.

The Closet can (with propriety) be used as a urinal or slop sink.

The water surface is 7" x 5 1/2" and for this class of Closet, is as large as it ought to be to secure a good flush.

The Closet is self-contained, and being made of stoneware is very suitable for places where there is likely to be rough usage.

**FLUSH.**—When tested by the judges at Leeds, the closet was connected with one of Ducketts' 2-gallon Stoneware Plunger Cisterns, having 1 1/2-inch fall pipe. The trap has a deeper seal, and basin holds 33% more water than usual, yet the flush is exceptionally strong.

## PRICES, on Rails at Burnley, CLENCHER No. 1:

Salt-Glazed .....	15s. od. each
Amber or Cane inside and outside .....	18s. od. "
Amber or Cane outside, white inside .....	21s. od. "
White inside and outside .....	24s. od. "
Extra, Painted and Varnished 1 1/2" pine Seat, and side Hinges of polished brass ..	7s. 6d. "
Polished 3/4" walnut or mahogany Seat, and do. do. do. ..	13s. 6d. "

NOTE—If with plain exterior, prices are 1/- each Closet less than list.

Weight: About 58 lbs each

In ordering, state whether S, P, or Q Trap is required, also kind of seat if required.





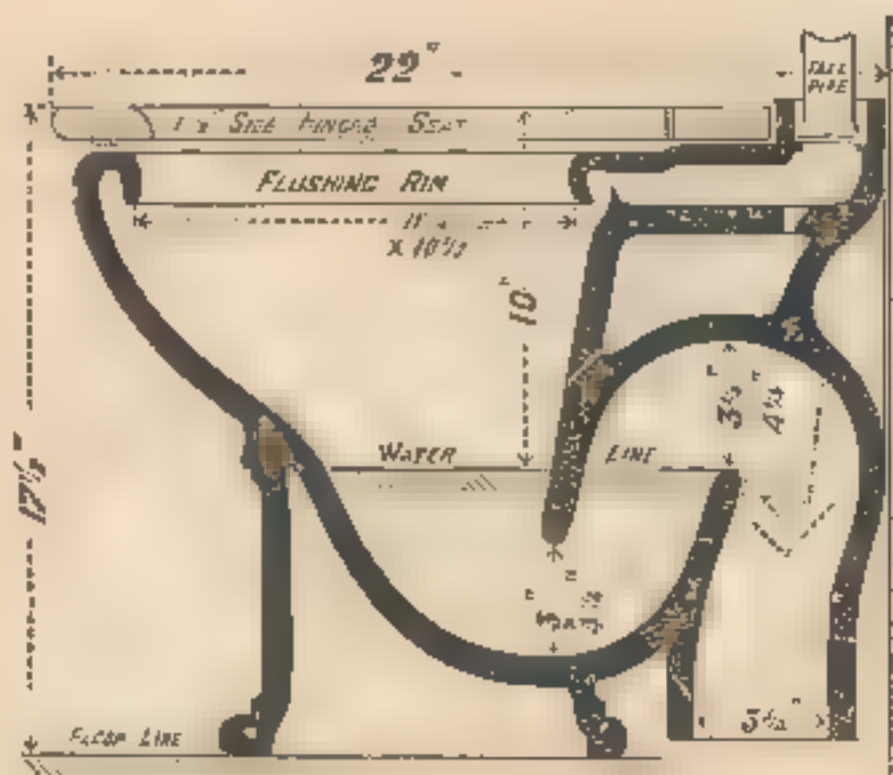
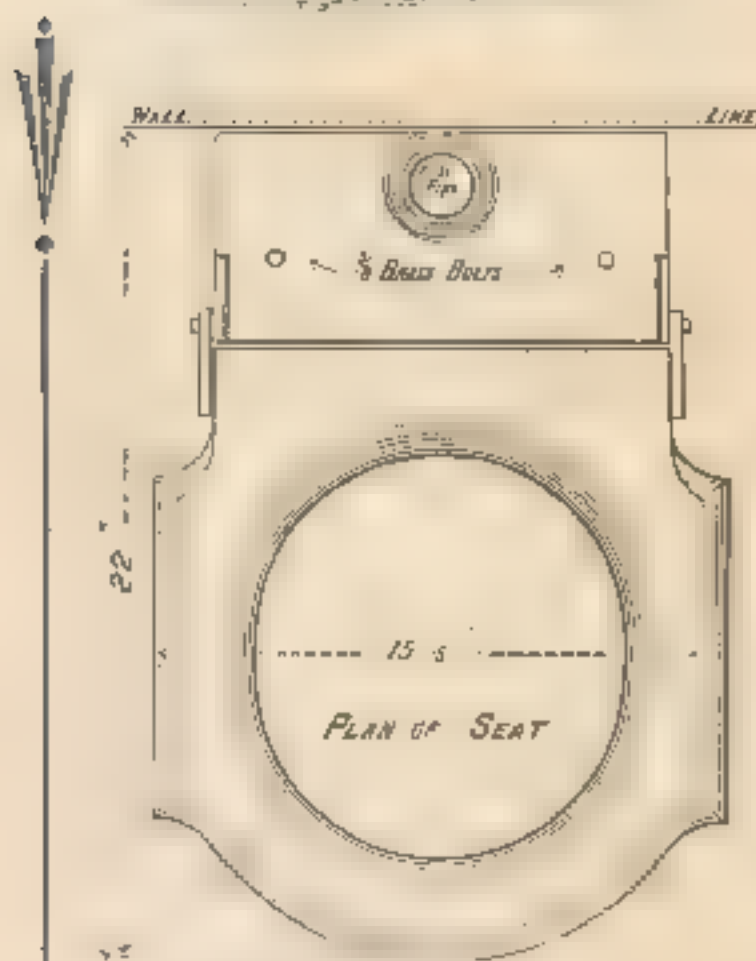
All Previous Lists Cancelled.

# DUCKETTS' PATENT PEDESTAL

Awarded Two Bronze Medals by the  
Sanitary Institute, L.N.

Leeds Exhibition, 1897;  
Southampton Exhibition, 1900.

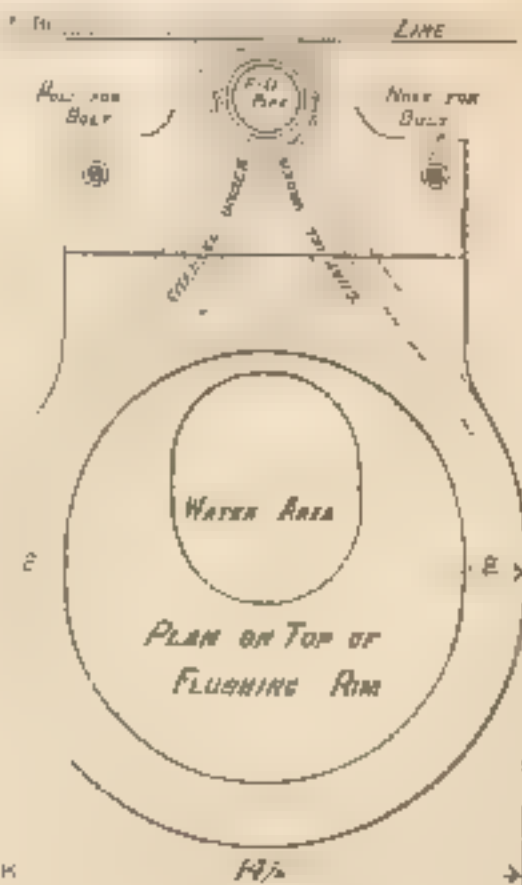
Scale  $1\frac{1}{2}$  INCHES TO A FOOT.



— No. 1. —

The water area in this closet basin is  $7\frac{1}{2}'' \times 5\frac{1}{2}''$ , and an excellent flush is obtained.

NOTE.—When tested by the Judges at Leeds and Southampton, the closet was connected with one of Ducketts' 2-gallon Plunger A1 Cisterns with  $1\frac{1}{2}$  inch fall pipe. This combination is strongly recommended to give best results.



## PRICES ON RAIL

NOS. 1, 2 & 3, "CLENCHERS" ARE ALL THE SAME PRICE.

	£	s.	d.	
Clencher Pedestal in Salt-glazed Ware, Plain Exterior	0	18	0	each
Do. in Amber-enamelled Ware, do.	1	1	6	"
Do. do. do. Fluted	1	2	6	"
Do. in Amber with White Interior, do.	1	6	0	"
Do. in White-enamelled Ware, do.	1	10	0	"
Extra for Anti-syphon Nozzle	0	1	0	"
" for Patent Joint for Outlet Connection for P Trap	0	3	6	"

NOTE.—Weight of each Closet, without Seat, about 58lbs.

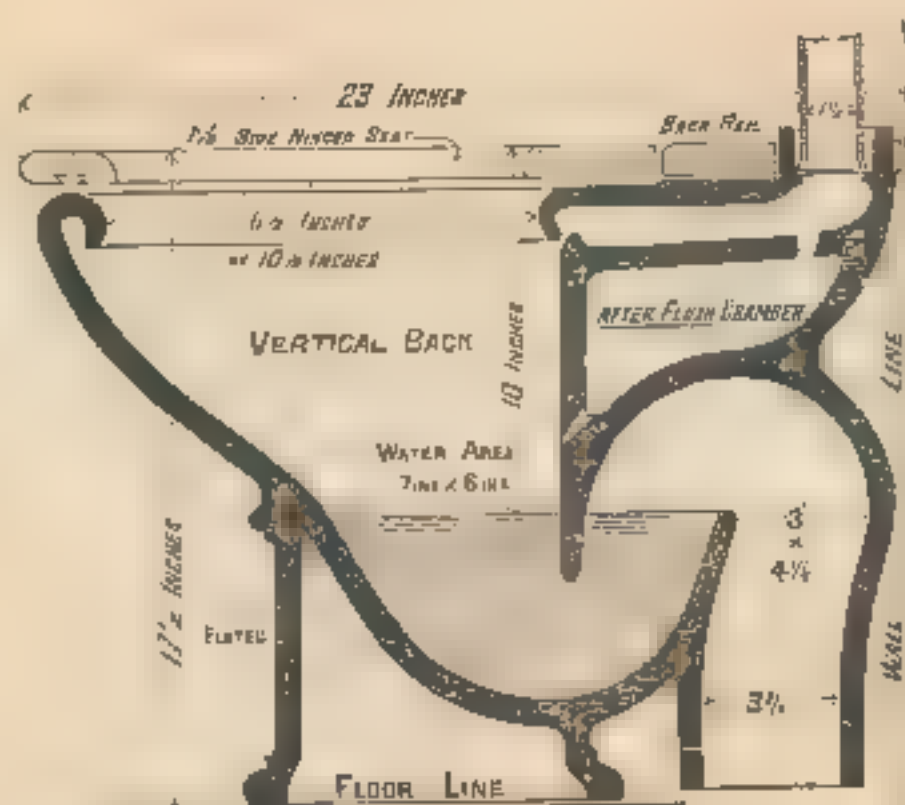
In ordering, state whether S, P, or Q Trap is required, also pattern of Closet—whether No. 1, 2, or 3, and state kind of Seat required, if any.

CISTERNs. See Circular for Flushing Cisterns, which

J. DUCKETT & SON, Ltd., Man

# WASH-DOWN PEDESTAL CLOSET, "The Clencher."

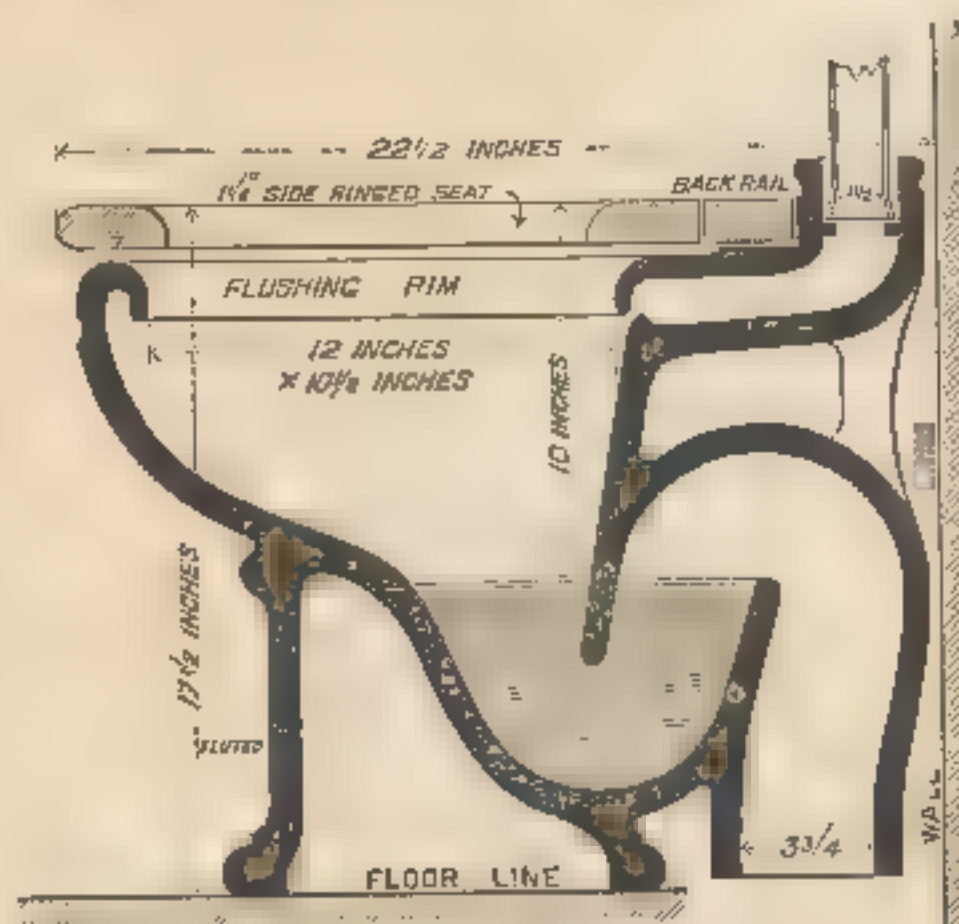
THIS PEDESTAL CLOSET is Self-Contained. The Trap has a two-inch Seal and is of such form and construction as will give the best results. The Flushing Rim is on the most approved principle. The two oblique channels connecting it with the fall pipe are important features. The Inlet to Flushing Rim is vertical and strong. No Rubber Cone is required to make joint between flushing inlet and fall pipe. The Seat is hinged to back rail, which is bolted to the ware table forming part of closet. Brackets are consequently dispensed with. The Closet is made of Stoneware and is exceptionally strong. It is therefore suitable for places where there is likely to be rough usage. Outlet of S trap is  $\frac{1}{2}$  inch above closet floor, and joint is very accessible.



No. 2.

This Closet is similar to No. 1, possessing all its advantages, but has a straight back, which is sometimes preferred, and a slightly larger water area in consequence is obtained.

When required an after-flush chamber is provided.



No. 3.

This Closet is similar to No. 1, but has a much reduced water area measuring 4" x 3 1/4".

An exceptionally strong flush is obtained in this Closet even when a 2-gallon valve cistern is used.

## LISTS AT BURNLEY.

	s.	d.	
Extra for Pine Seat 1 1/2" thick, Plain, without Hinges .....	6	0	each
" do. do. with Butt Hinges.....	7	0	"
" for Pine Seat 1 1/2" thick, Painted or Stained and Varnished, with Side Hinges of Polished Brass .	9	0	"
" Hinged Pine Flap 1" thick, Painted or Stained and Varnished.....	4	0	"
" Polished Mahogany Seat, 1 1/2" thick with Side Hinges of Polished Brass.....	15	0	"
" for Polished Walnut Seat 1 1/2" thick do. do. ....	16	6	"
" for Polished Oak Seat 1 1/2" thick do. do. ....	18	0	"
" for Polished Mahogany, Walnut, or Oak Flap, 1" thick, Hinged .....	6	6	"
" for Self Lifting Balance Arrangement .....	7	6	"

are recommended to be fixed in connection with these Closets.

Manufacturers of Sanitary Ware, BURNLEY, Lancs.



This Class is only 7.6, and I, but has a much reduced water area measuring  $1 \times 0.5$ .

# ASH-DOWN PEDESTAL CLOSETS.

## "The CLENCHER" No. 2.

SUITABLE  
FOR INSIDE  
W.C.'S.

SECTION shewing  
CLENCHER No. 2 in  
combination with  
Ducketts' Patent  
Plunger Cistern and  
Disconnecting  
Trap.

Particulars and Prices of  
Cisterns on application

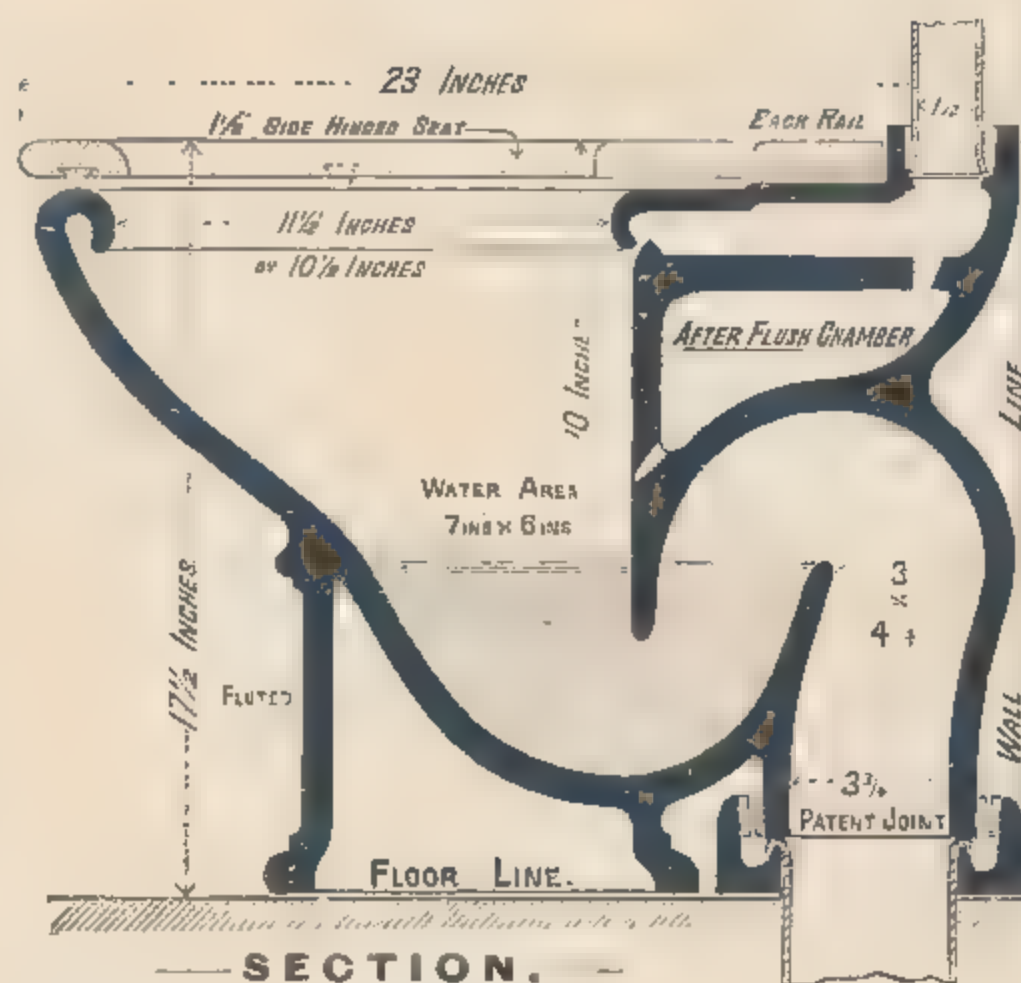


INCH SCALE.



Instructions for making  
Joint to P Trap.

Taft a short length of lead soil pipe into ware socket, as described for S Trap, and make good with solder or cement, after which fix the Clencher spigot into socket. The lewis bolt is provided for preventing drawing of joint after fixing. The short length of lead soil pipe can then be connected to the iron pipe in the usual approved manner.



SECTION.  
SCALE 1 1/2 INCHES TO A FOOT

### DESCRIPTION.

The special points in this Closet are the straight back and the special joint for connecting it to a lead soil pipe as shewn on sections, which make a most satisfactory job.

Any ordinary plumber can readily make this connection absolutely proof against any escape of sewer gas. This is manifestly of great importance.

The water area is slightly more than in Clencher No. 1.

### Instructions to Plumbers for fixing Clencher Joint to S Trap.

- 1.—Fix lead soil pipe in its position and so that top end of it stands up 2 1/4 inches above floor — (See Section).
- 2.—Next slide the ware socket over soil pipe until it rests on the floor.
- 3.—Then taft end of lead pipe into socket, and make good with solder or cement before fixing pedestal.

In fixing pedestal, see that spigot fits properly into socket, and the special jointing material on each of these will complete the joint. After this fasten pedestal to the floor with screws in the ordinary manner.

### PRICES, on Rails at Burnley.

CLENCHER No 2.—Extra on No. 1 .....	2s. 0d. each
Seats for do. do .....	6d. ..
Patent Joint for P Trap, including preparation of Spigot of Closet, and special Socket and Clip	3s. 6d. ..
Do. do for S Trap (no Clip required) .....	2s. 6d. ..



For advantages, &c., of  
this Patent Disconnect-  
ing Trap. See page 41.

The price of this Trap is 10s.

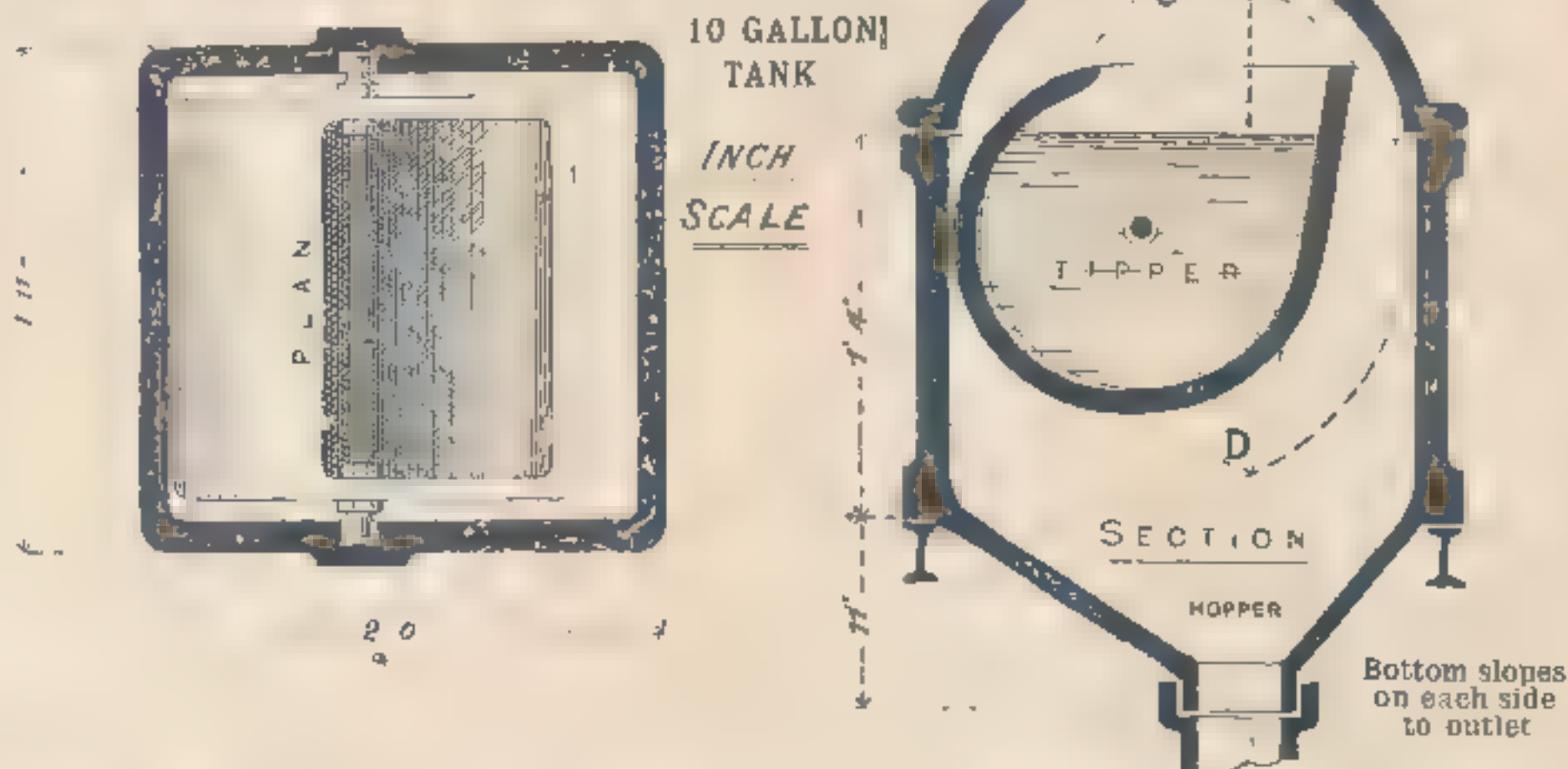
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS' PATENT

## No. 1. AUTOMATIC.

TO FLUSH 5 OR 10 GALLONS.



**DESCRIPTION.** The Box Cover and Tipper, are made of Enamelled Ware. Tipper is provided with through Axes, fitted with Gun Metal Bushes, supported on Gun Metal Steps.

The apparatus is guaranteed to work perfectly with a mere dribble of feed water, in fact with a drop by drop supply.

The Cover is supposed to prevent tipping and is tampered with and to afford protection against frost. In case however, there is a formation of ice, the action of the tipper will break it and flush it away.

The apparatus (being reversible) will suit either right or left hand.

The Materials used in its construction are Enamelled Ware and Gun Metal. These are practically indestructible so that any necessity for repairs is almost impossible to arise.

The action is at all times absolutely reliable.

For Schools, Factories, &c, these Flushing Tanks can be well applied in connection with latrines, as per pages 20 and 21. Large quantities have been sold, and are giving great satisfaction.

**ADVANTAGES. EXTRAORDINARY FLUSH.** 10 gallons being discharged through a 4-inch pipe in 4 seconds. This is remarkable.

Five flushes of 10 gallons are more sanitary than one flush of 50 gallons as frequent and regular flushing reduces accumulations of filth.

It is very durable; there is nothing likely to get out of order.

No bluffer to keep in repair. These Tippers will work even when the box is carelessly set out of level.

### PRICES, on Rails at Burnley:

5-gallon Tipper and Box.....	£2 10s. 0d. each.
10-gallon do. ....	3 0s. 0d. "

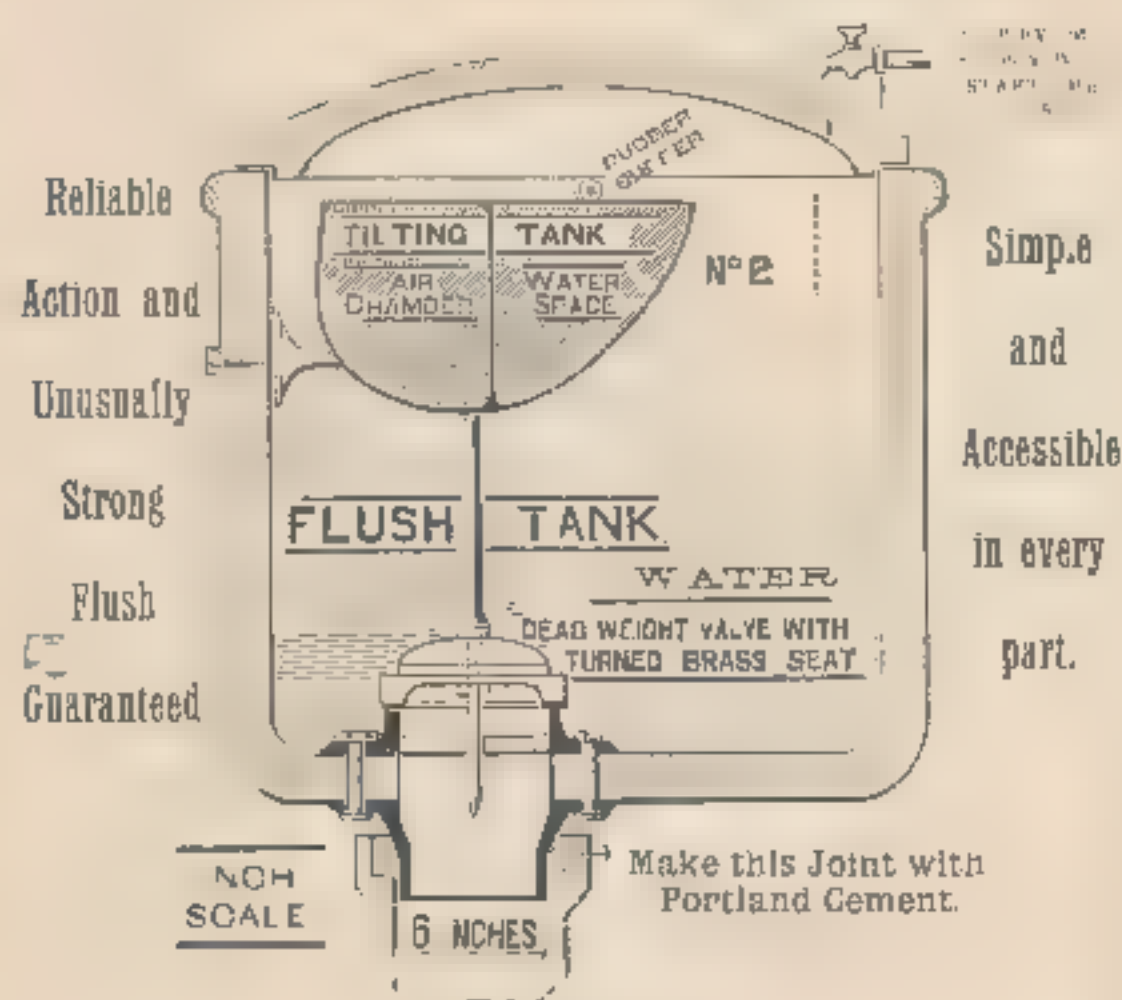
Suitable light Steel Bearers are supplied for supporting these Flushing Tanks. Price, 1/- per lineal foot. These bearers are strongly recommended as they are safer than wood lints which frequently rot at the ends. The length between walls if they are required.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

# FLUSHING TANKS.

## No. 2. AUTOMATIC.

OF ANY REQUIRED CAPACITY.



### DESCRIPTION.

THE TANKS are usually made of Salt-Glazed Ware of various sizes. They can however be supplied in Galvanized Iron.

THE TILTING TANK is made of Copper and fitted up with Brass Pivots, Steps and Rubber Buffer. The Air Chamber ensures its efficient working even when the Cistern is carelessly fixed or set out of level.

THE COVER is of iron and is provided with a handle from freezing. For very exposed positions a covering of hair felting is recommended as further protection.

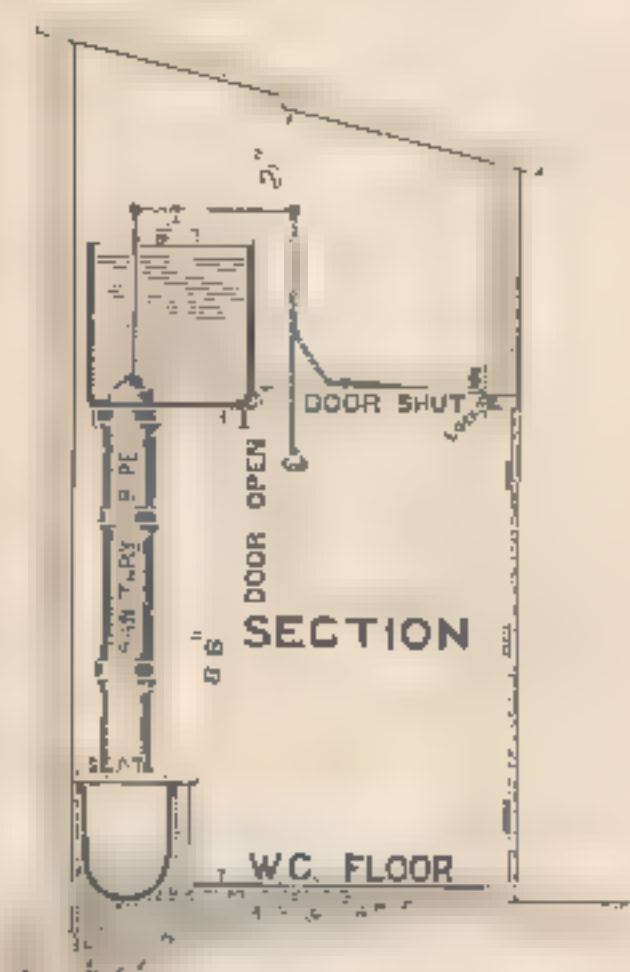
THE FEED WATER enters the Flushing Tank and overflows into the water space of the Tilting Tank, the tilting of which lifts the valve and the water discharges with great force through the Closet or the Drain as the case may be. A portion is retained in the tilting tank a short time until it escapes through the small aperture provided. By the action of the passage the Flushing Tank is emptied, the water level in the Cistern rises, and the water pressure forces the valve and the Cistern again refills.

The discharge of the tank can be made greater or less by increasing the size of outlet valve.

The fittings of this Tank can be made to be built into brickwork for an underground flushing tank of any capacity.

## No. 3. HAND FLUSH.

OF ANY REQUIRED CAPACITY. —



### 1/4 INCH SCALE.

This Flushing Tank is made of Salt-Glazed Ware or Galvanized Iron. The dead-weight valve is fitted up with turned brass seating and a soft rubber ring, thus making a water-tight joint.

On the valve of cistern being opened the water contents are discharged, and the range of Latrines flushed and recharged with clean water.

### PRICES, on Rails at Burnley:

20-gallon Tank, fit up complete as shown on Illustrations No. 2 and No. 3	...
35-gallon Tank,	...
50-gallon Tank,	...

In Salt-Glazed Ware or Galvanized Iron	£	s	d.
20-gallon Tank	3	10	0
35-gallon Tank	4	0	0
50-gallon Tank	4	10	0

Note.—If required, thoroughly efficient Syphon Flushing Tanks can be supplied at above prices.

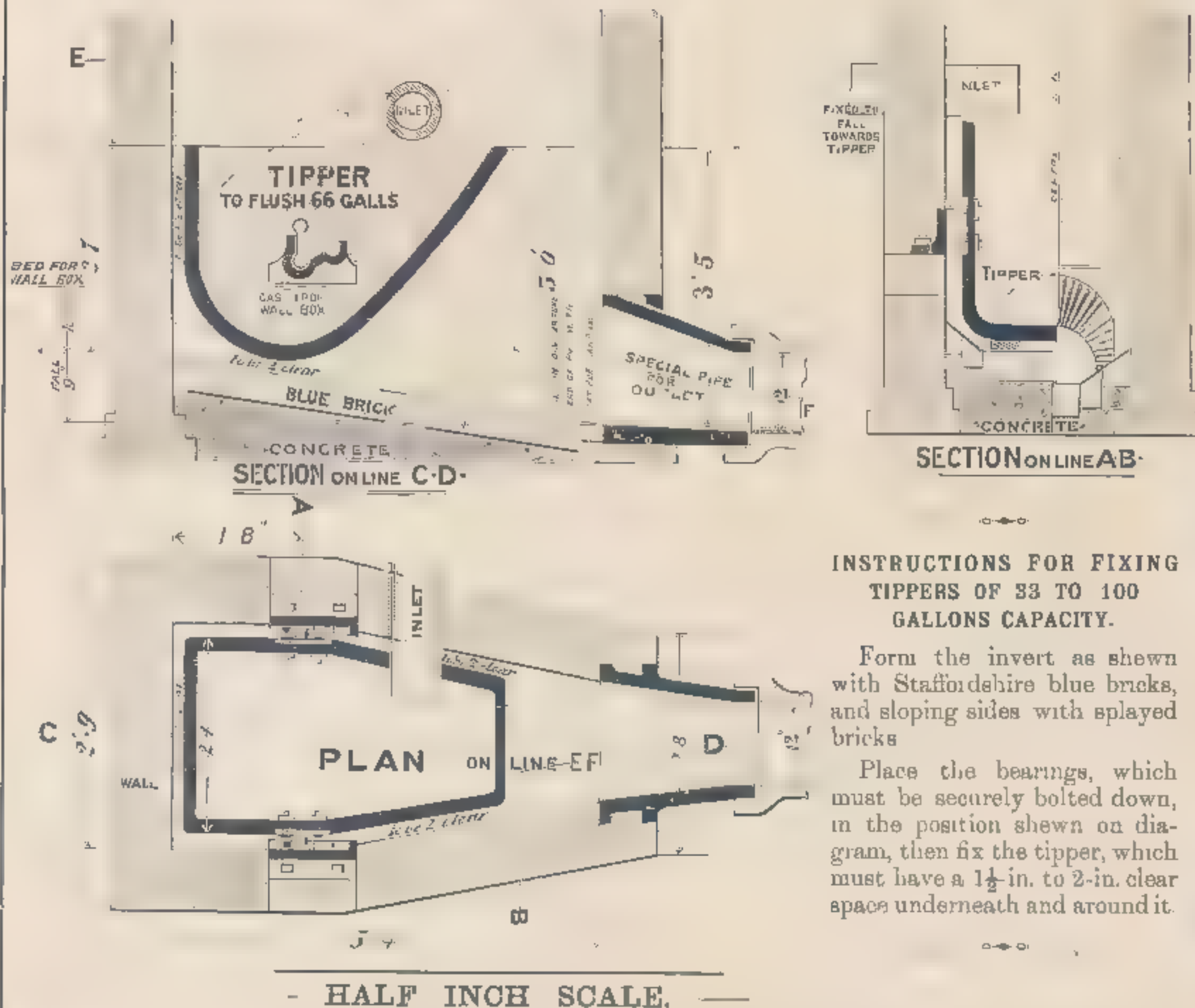
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS' Automatic Tipper

## OF VARIOUS SIZES. 3

### 66 GALLON TIPPER.



#### INSTRUCTIONS FOR FIXING TIPPERS OF 33 TO 100 GALLONS CAPACITY.

Form the invert as shown with Staffordshire blue bricks, and sloping sides with splayed bricks.

Place the bearings, which must be securely bolted down, in the position shown on diagram, then fix the tipper, which must have a 1 1/2 in. to 2 in. clear space underneath and around it.

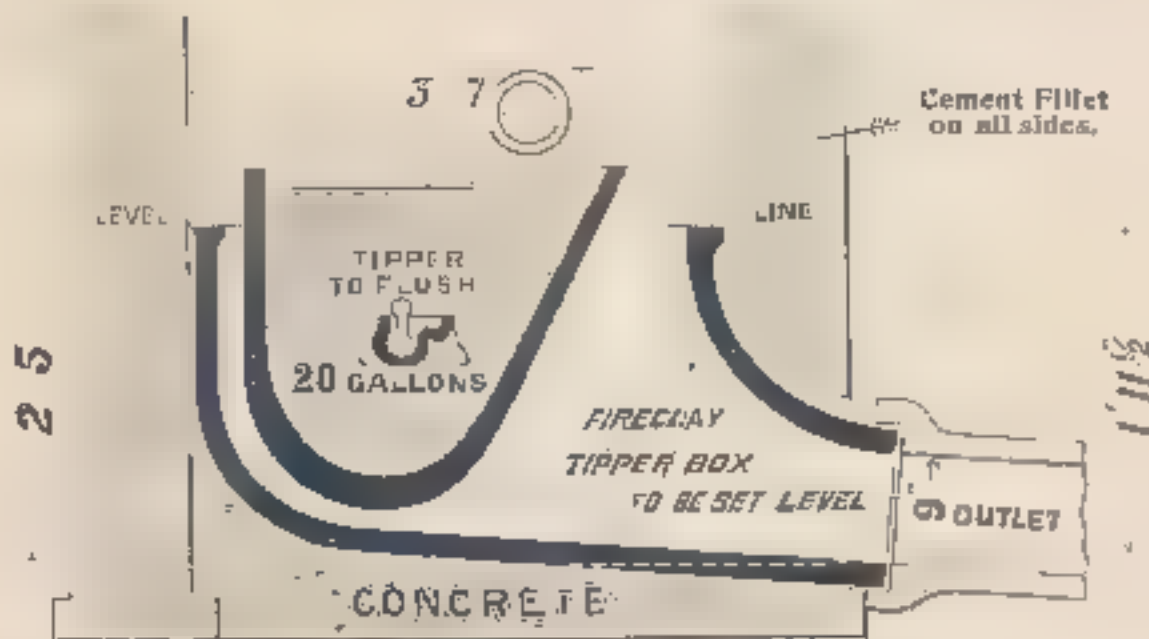
Covers are to be ordered by purchaser as they require to vary in strength according to the size and position of flushing chamber. When there is but little weight to pass over 6 in. rough flags would suffice. In some cases wrought iron girders should be used.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

# ers, for Flushing Sewers, &c.,

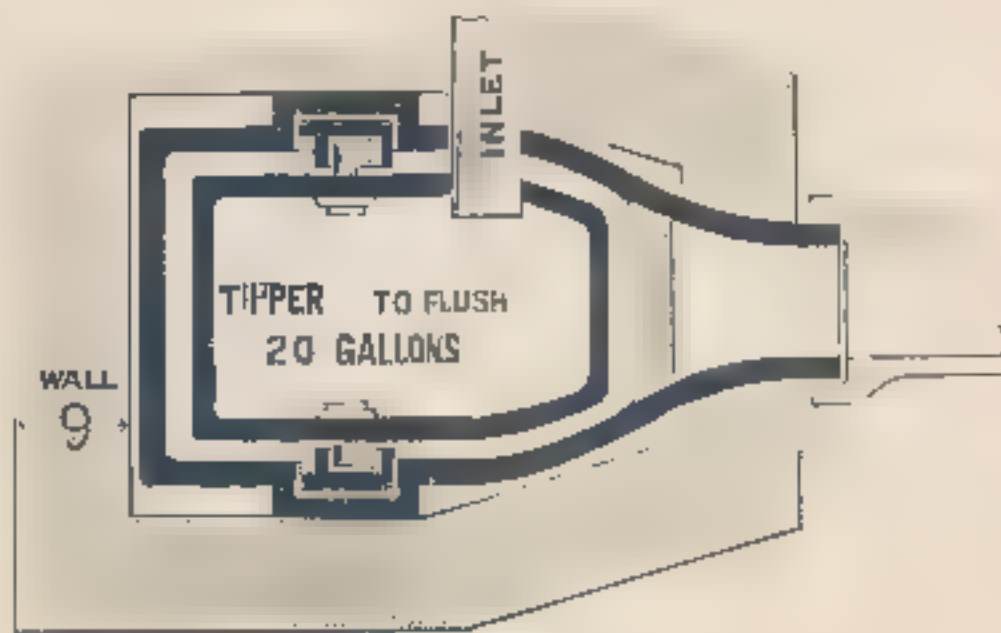
## TO 100 GALLONS FLUSH.

### 20 GALLON TIPPER AND BOX.



SECTION. —

— HALF INCH SCALE. —



PLAN. —

**Large size Tilting Vessels** are admirably adapted for flushing sewers. They are very powerful and require practically no attention, and have no mechanism at all likely to get out of order. The water supply may come from the town's main at a mere dribble, as even a drop by drop supply will work them.

Surface water from the roofs of weaving sheds, dirty water from streets, houses, &c., may thus be utilized for flushing.

**Tippers** up to and including 33 gallons capacity, are made of salt-glazed ware, rest on metal bearings, and are fitted in a most substantial manner in every respect. Tippers over 33 gallons capacity are made of well seasoned pitch pine.

*J. Duckett & Son, Ltd., recommend that the bottoms of these large tippers be kept well covered, and periodically examined for the purpose of removing any accumulation which might interfere with the sensitive working of tippers. An annual examination may be found sufficient.*

### PRICES:

—On Rails at Burnley—

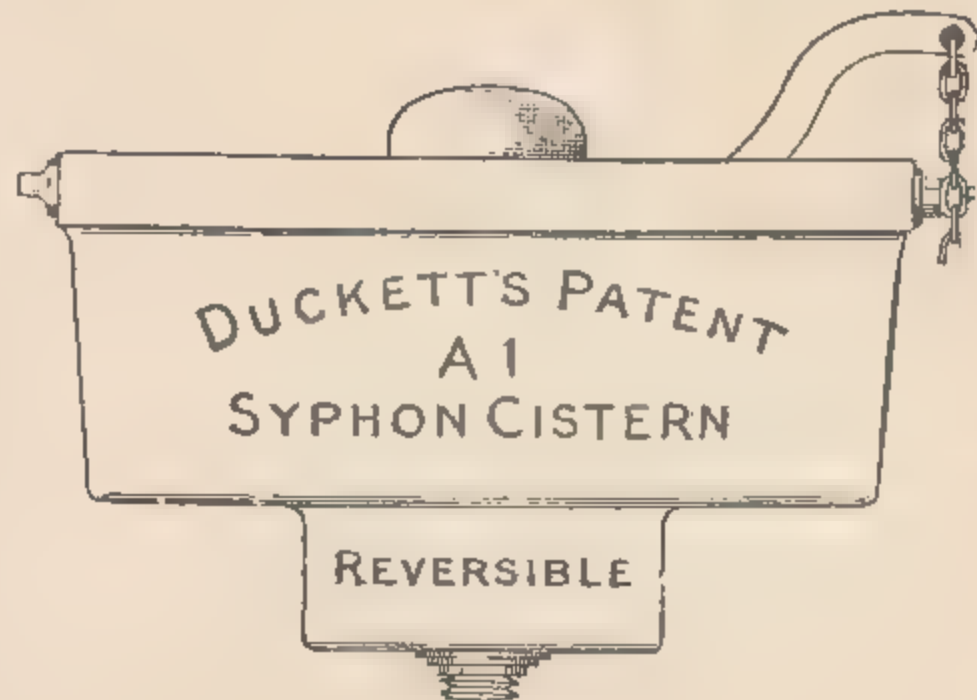
For 3 Gallon Flush (as per page 8), consisting of tipper, tipper box, dish-stone, and grate .....	1	2	0
For 5-Gallon Flush (as per page 14), consisting of tipper, tipper box, dish-stone, and grate .....	1	5	0
For 10-Gallon Flush, similar in principle to the 20 gallon illustrated above .....	3	0	0
For 20 Gallon Flush, including tipper and tipper box, fit up complete (except cover and trickwork) as per drawing .....	5	0	0
For 33-Gallon Tipper, having strong pivots with bearings bolted to wall, special pipe for outlet, on the same principle as the 66-gallon illustrated on page 32 .....	4	0	0
For 66 Gallon Tipper do do .....	6	0	0
For 100 Gallon Tipper, do do ...	8	0	0

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

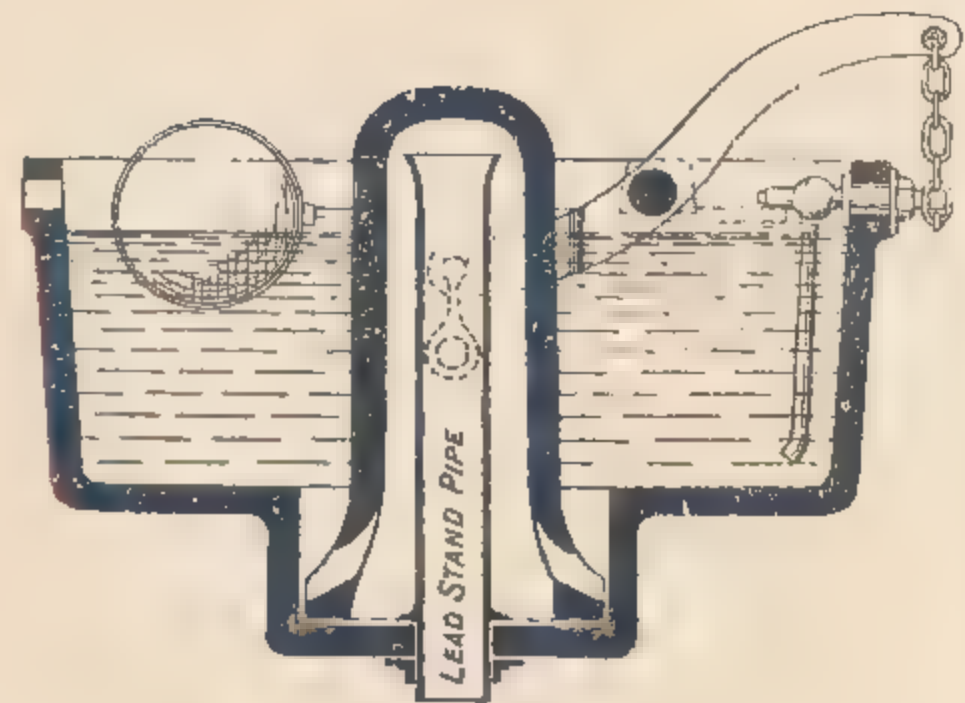


# — DUCKETTS' —

## A.1. Stoneware Syphon Plunger Cistern



At the Leeds Exhibition, 1897, this Cistern was used in flushing Ducketts' "CLENCHER" Wash-down Closet when tested by the Judges appointed by the Sanitary Institute, and for which the Bronze Medal was awarded.



### — Description. —

**T**HIS CISTERN has a very powerful flush (even with 2 gallons of water) and is more silent in action than most Plunger Cisterns. It is made of highly-glazed enamelled stoneware, and all fittings are of the best quality. The stand pipe is of lead, fixed a little above top of cistern to prevent secret waste. The lever is of strong cast iron, and furnished with brass chain and ivory pull. Plunger is of enamelled stoneware. Ball Valve is of best quality.

The flush starts with a pull-and-let-go. On descent of plunger the water rushes through the large circular openings in plunger with great force. With only 3-feet of  $1\frac{1}{2}$ -in. fall pipe it will flush 2 gallons in 3 seconds or 3 gallons in  $4\frac{1}{2}$  seconds.

**NOTE.** *J. Duckett & Son, Ltd., recommend their Lead-lined Cistern for outside w.c.'s where exposed to frost.*

### *Advantages.*

1. Powerful and silent flush with comparative silence.
2. Simple in construction and durable.
3. Neat in appearance and cleanly. No rusting in working parts.

### — Prices, at Burnley: —

Cistern in Amber Enamelled Stoneware, with Ball Cock, Overflow, $1\frac{1}{2}$ " } Brass Union, Lever, Chain and Pull complete	2 GALLS.	$2\frac{1}{2}$ GALLS.	3 GALLS.
	19s. 0d.	21s. 0d.	23s. 0d.

#### Optional Extras:—

	s.	d.
Ornamental Cast Iron Brackets...	1	9 per pair.
Stoneware Cover with Stanford Joint.....	1	6 each.
When Cistern is White Enamelled..	2	0 each.

**NOTE.**—A  $1\frac{1}{2}$ " Union will be sent unless otherwise ordered.

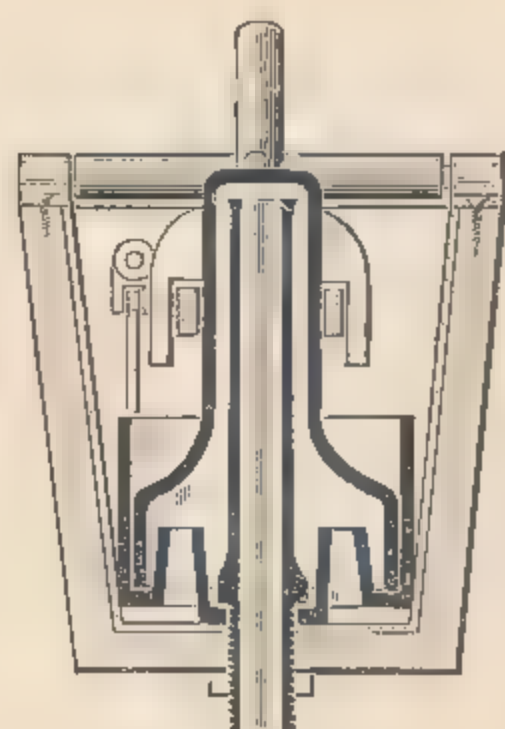
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

# — DUCKETTS' —

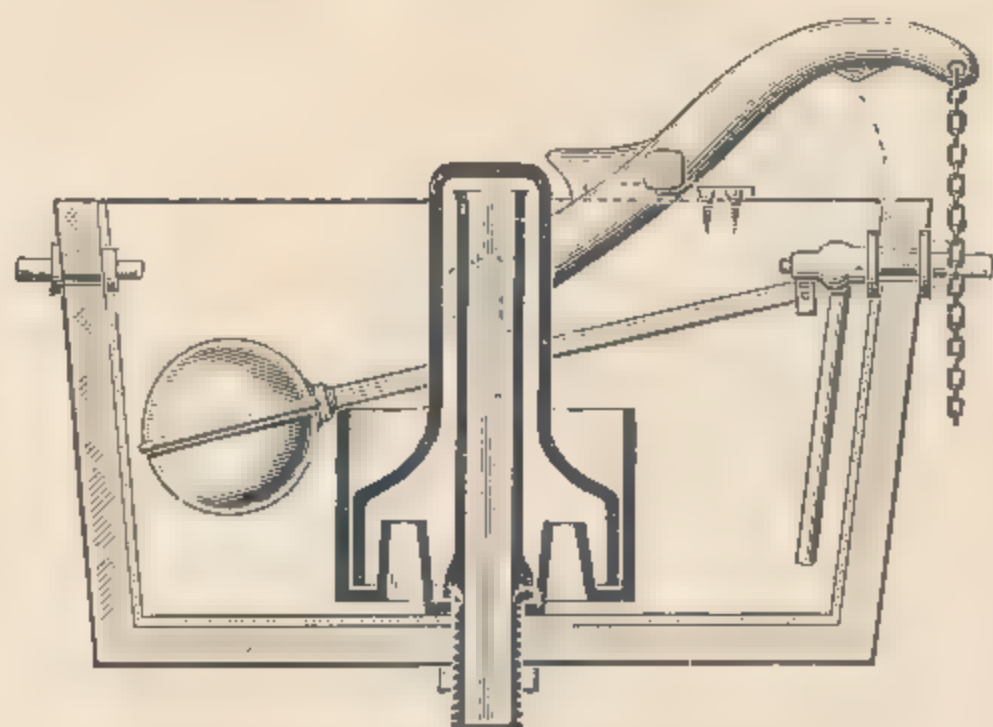
## Lead-Lined Syphon Plunger Cistern.

(PROTECTED.)

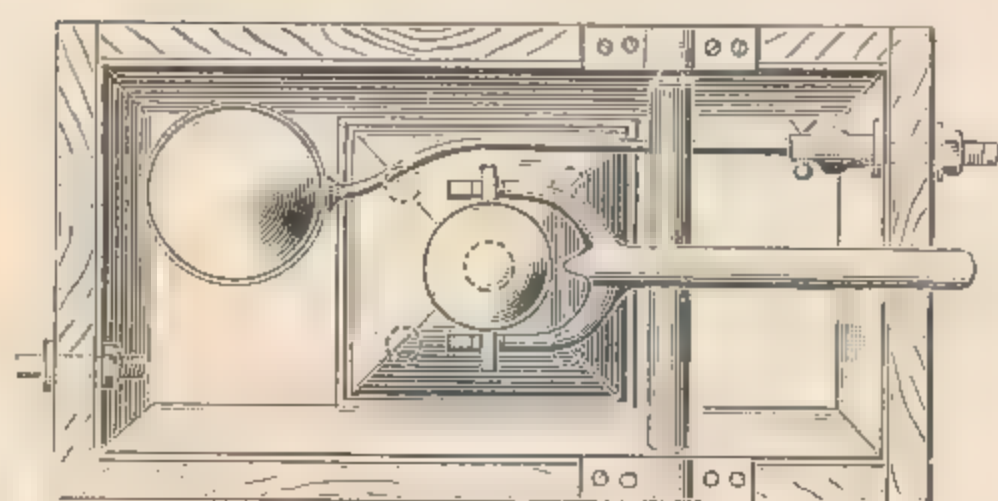
MEETS REQUIREMENTS OF THE PRINCIPAL WATER COMPANIES.



CROSS SECTION.



LONGITUDINAL SECTION.



— PLAN. —

### *Description* —

**This Cistern** is constructed in a novel manner, which ensures a most satisfactory flush.

**The Casing** is of  $\frac{7}{8}$ ths red deal, well dovetailed, and lined with 5-lbs. lead.

**The Stand Pipe** is fixed a little above top of cistern to prevent secret waste.

**Ball Valve** is of best quality.

**Lever** is furnished with chain and ivory pull, and axles have brass ferrules

**Flush** starts with a pull-and-let go

### *Advantages:—*

1. Powerful Flush with little noise.
2. Simplicity in construction.
3. Plunger can be removed without removing axle.
4. Outlet being in centre, cistern will suit either right or left hand.

### *Prices, at Burnley:—*

Cistern, with painted cast iron Well, Stand Pipe, Plunger and Lever, and a good Ball Cock, Overflow,  $1\frac{1}{2}$  Brass Union, Chain and Ivory Pull complete..

2 GALLS     $2\frac{1}{2}$  GALLS.    3 GALLS.

17s. 6d.    19s. 0d.    20s. 6d.

Optional Extras:	When all Ironwork is Galvanized.	s   d 3   6 each.
	Ornamental Cast Iron Brackets .....	1   9 pair.
	Glazed Ware or Painted Wood Cover.....	1   6 each.

NOTE.—A  $1\frac{1}{2}$ " Union will be sent unless otherwise ordered.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



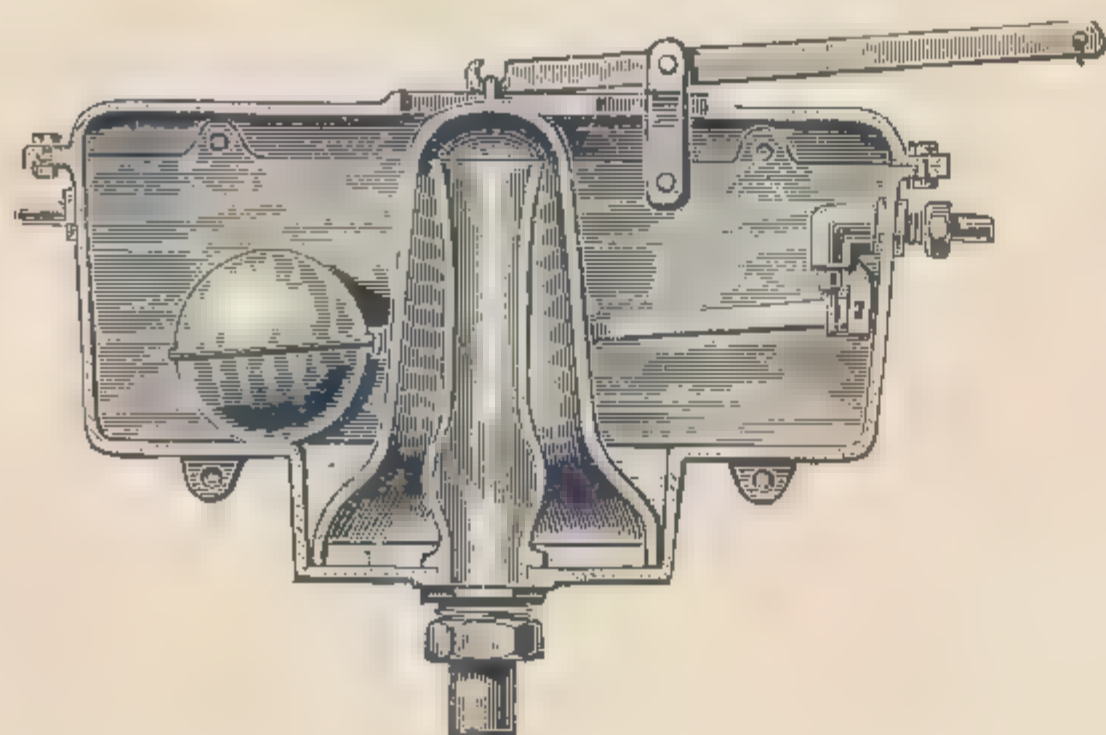
# PATENT WASTE-PREVENTING W.C. CISTERN.

## The "LEVERN" Valveless Syphon Cistern.

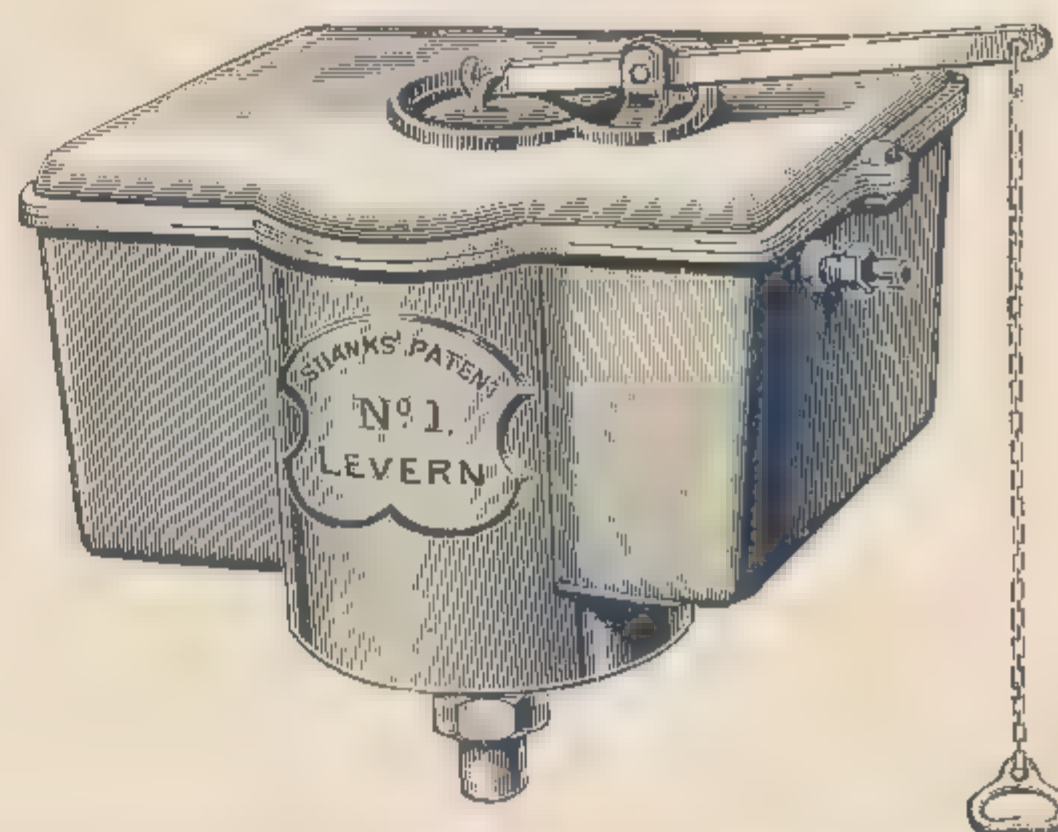
This Cistern is constructed in conformity with the regulations of the best Water Companies in the kingdom. The parts are few, simple, and strong, and it is next to impossible for it to get out of order.

The Patented Syphon Pipe, with bulge at foot, renders the discharge from the Cistern so rapid that the Cistern will empty in nearly half the time of ordinary patterns. The top of the Syphon Pipe is just above the level of edge of Cistern, so that secret overflowing is impossible. It is more silent in action than most Syphon Cisterns.

SECTION. -



VIEW.



May be made left-handed if specially ordered, at no extra cost.

SHANKS' GLASS ENAMEL renders the inside of Cistern as cleanly and durable as a piece of Porcelain. Does not chip or scale off.

The Cistern is made vertical at back, with Lugs for screwing to wall, and so saving the cost of brackets.

### — PRICES, at Burnley : —

	CAPACITY.		
	2 GALLS	2½ GALLS	3 GALLS
"Levern" Cistern & Cover in cast iron, painted, with ordinary Ball Cock . . .	16s. 0d	17s. 3d.	18s. 6d.
Glass Enamelling inside of Cistern and all over Dome, extra . . . . .	4s. 0d.	4s. 9d.	5s. 6d.
Glass Enamelling Dome only, extra . . . . .	1s. 2d.		

Fullway Special Ball Valve, extra 1s. 6d.    Dome and Syphon Pipe made in Spelter, extra 4s. 0d.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



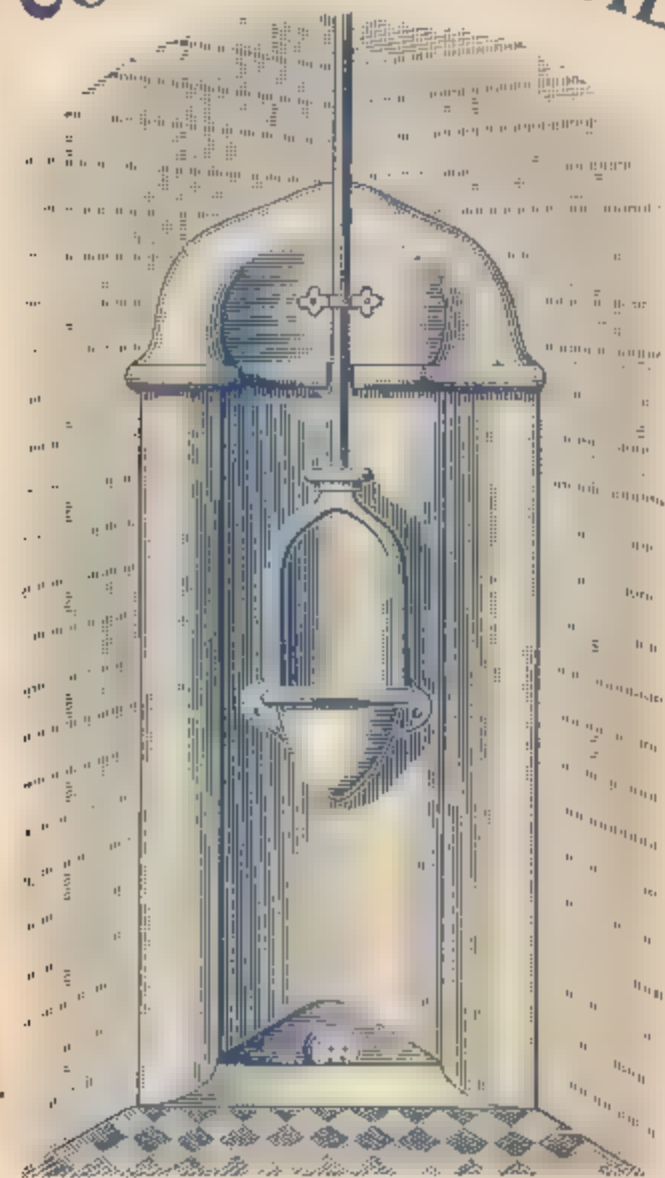
# DUCKETTS' URINALS

—PATENTED—

CHEAP, SANITARY, HANDSOME, EASILY FIXED.

AWARDED THE PRIZE MEDAL OF THE SANITARY INSTITUTE,  
BIRMINGHAM EXHIBITION, 1898.

## CORNER URINAL



**THESE URINALS** are made of highly glazed Enamelled ware, in two widths, viz :—  
**A.** 23 inches from centre, and **B.** 26 inches centre to centre. Smaller sizes, 18 inches from centre to centre, can be supplied when required. **Corner Urinal** is 30 inches on face.

**Pillars and Caps** are undercut for cement key.

**Vertical joints of caps** are behind flush pipes.

**Each Range** is erected, fitted, and numbered before leaving the works, so that the parts can afterwards be readily and accurately put together.

**NOTE.**—*End Pillars and Caps are prepared to be built into wall unless ordered otherwise.*

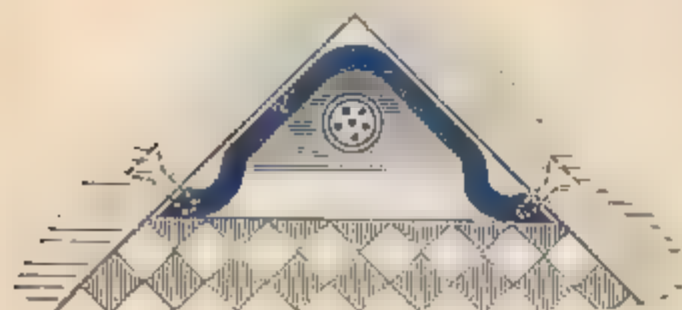
**The basin** shewn in combination with Corner Urinal is also applicable to stalls in ranges. It is secured with brass bolts.

*Basin and back of Urinal below it are cleansed at each flush.*

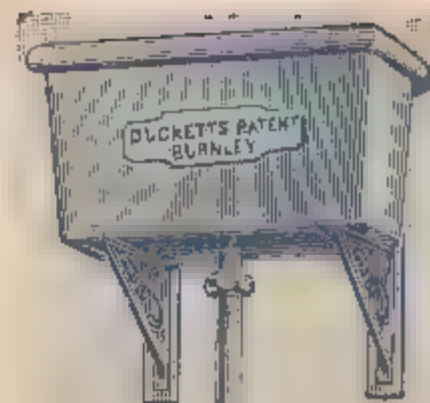
**The Blocks** which form the **channel** and **sloping tread** should be bedded in cement concrete, so as to form a good foundation for the Urinals.

Being highly glazed, these Urinals cannot be written upon and defaced.

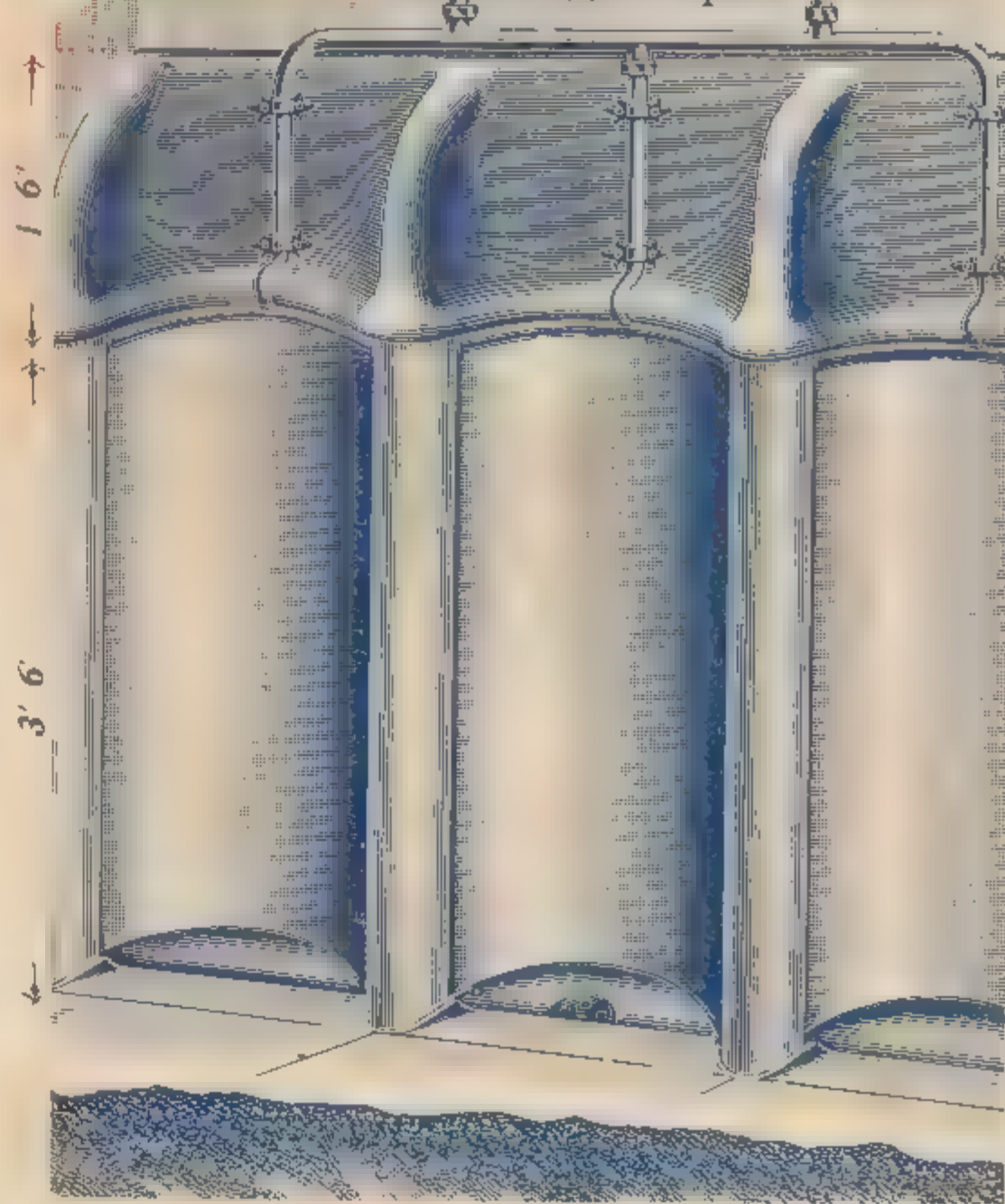
**FIXING.**—Experienced men are sent out when required.



—PLAN



Copper  
Flush Pipes.



PLAN OF STALLS, "B" SIZE.

## Prices on Rails at Burnley:—

"A" size including stoneware back, pillars, caps, channelling, tread, trap and grate  
"B" do  
Return ends and caps.....extra per end...  
Corner Urinal complete with basin and brass bolts .....  
do. without basin.....

Amber Enamelled Ware	White Enamelled Ware	Approximate Weight.
per stall.	per stall.	per stall.
£3 0 0	£4 19 0	2 cwt. 3 qrs.
£3 17 0	£6 0 0	4 cwt. 1 qr.
£0 16 6	£1 2 0	.....
£4 13 0	£7 3 0	.....
£3 17 0	£6 0 0	2 cwt. 3 qrs.

## SPECIAL DESIGNS AND QUOTATIONS GIVEN FOR HEXAGONAL AND OTHER URINALS

### Flushing Pipes.

	per stall.
Best quality copper complete with clips .....	£1 13 0
Strong galvanised iron with copper spray pipe.....	£1 7 0
Strong lead do do .....	£1 7 0

### Automatic Flushing Cisterns.

	each.
Amber enamelled ware. One gallon capacity ...	£1 13 0
White do. do. do. ...	£2 4 0
Extra for each additional gallon capacity .....	3 0
Iron Brackets, painted 1/9 per pair. Galvanised 2/9 per pair.	

J. DUCKETT & SON, LTD., Manufacturers of Sanitary Ware, BURNLEY, LANCASHIRE.



# DRINKETTS, URBINATS

1847-1848

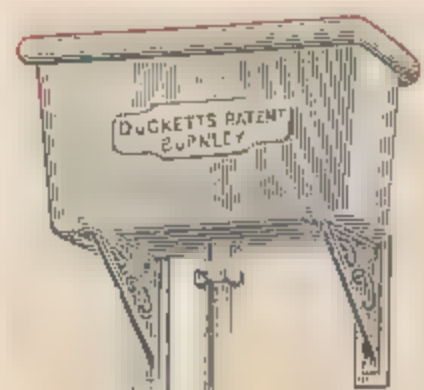
1847-1848

1847-1848

1847-1848

1847-1848

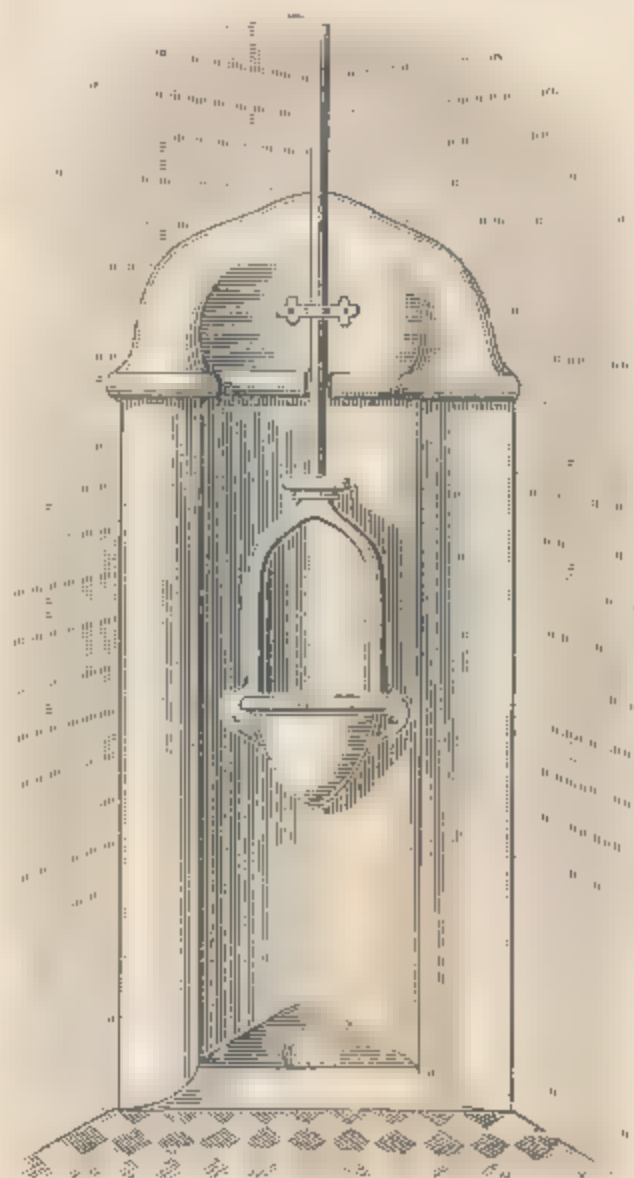
**CHEAP**  
\*  
**SANITARY**  
\*  
**HANDSOME**  
\*  
**EASILY**  
**FIXED**



# DUCKETTS' URINALS.

**PROTECTED.**

## CORNER URINAL.



These URINALS are made of highly-glazed ware, in two widths, viz.:—A. 23 inches from centre to centre, and B. 26 inches from centre to centre. Corner Urinal is 30 inches on face.

Pillars and Caps are undercut for cement key.

Vertical joints of caps are behind flush pipes.

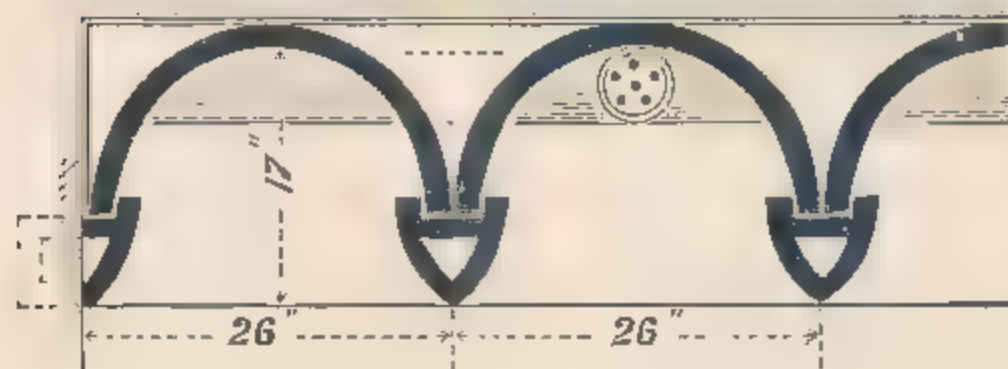
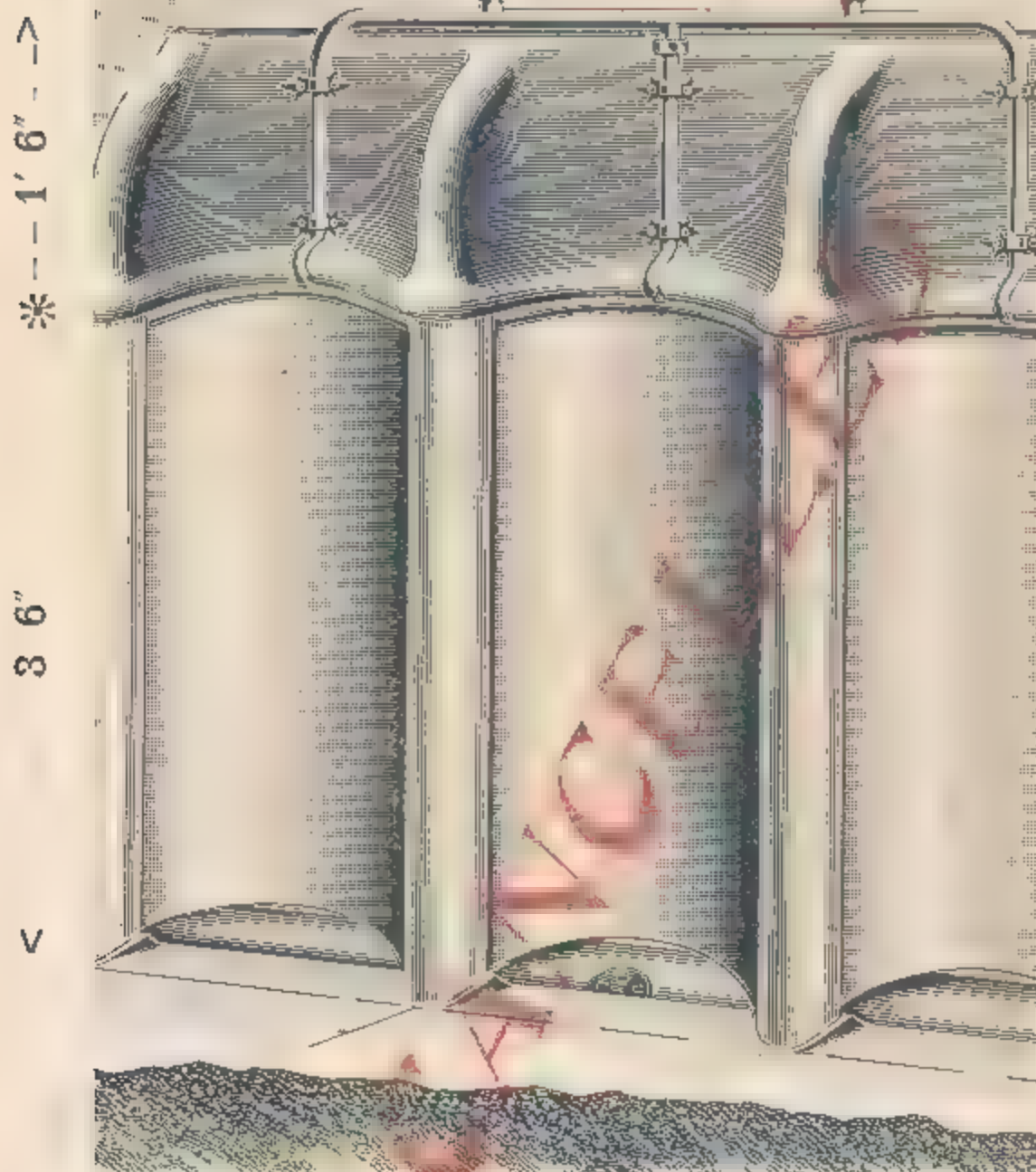
Each range is erected, fitted, and numbered before leaving the works, so that the parts can afterwards be readily and accurately put together. Thoroughly experienced workmen or masons, accustomed to setting ashlar, should be employed in fixing these Urinals.

The basin shewn in combination with Corner Urinal is also applicable to stalls in ranges. It is secured with brass bolts.

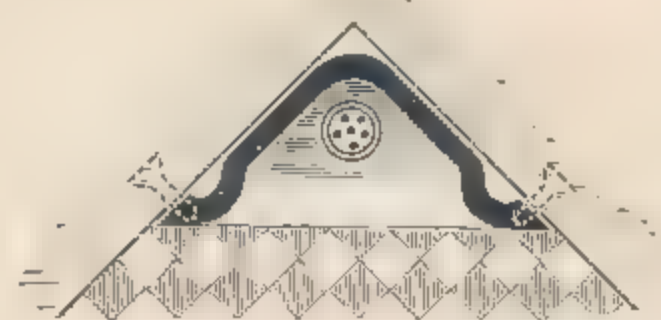
*Basin and back of Urinal under it are cleansed at each flush.*

The blocks which form the channel and sloping tread should be bedded in cement concrete, so as to form a good foundation for the Urinals.

**Being highly glazed, these Urinals cannot be written upon and defaced**



PLAN OF STALLS. "B" SIZE.



PLAN.

NOTE. End Pillars and Caps are prepared to be built into wall, unless otherwise ordered.

## Prices on Rails at Burnley:

	Salt-Glazed Ware.	Amber Enamelled Ware.	White Enamelled Ware.	Approximate Weight
"A" size, per stall	£2 0 0	£2 8 0	£3 15 0	2 cwts. 3 qrs.
"B" size, per stall	£2 10 0	£3 0 0	£4 10 0	4 cwts. 1 qr.
CORNER URINAL without basin	£2 15 0	£3 5 0	£4 15 0	.....
BASIN only, with brass bolts,....	£0 10 0	£0 12 0	£0 15 0	.....

Suitable Automatic Cistern and Brackets with Flush Pipes, &c., as illustrated, for 3 stalls, £4 os. od.

Do.

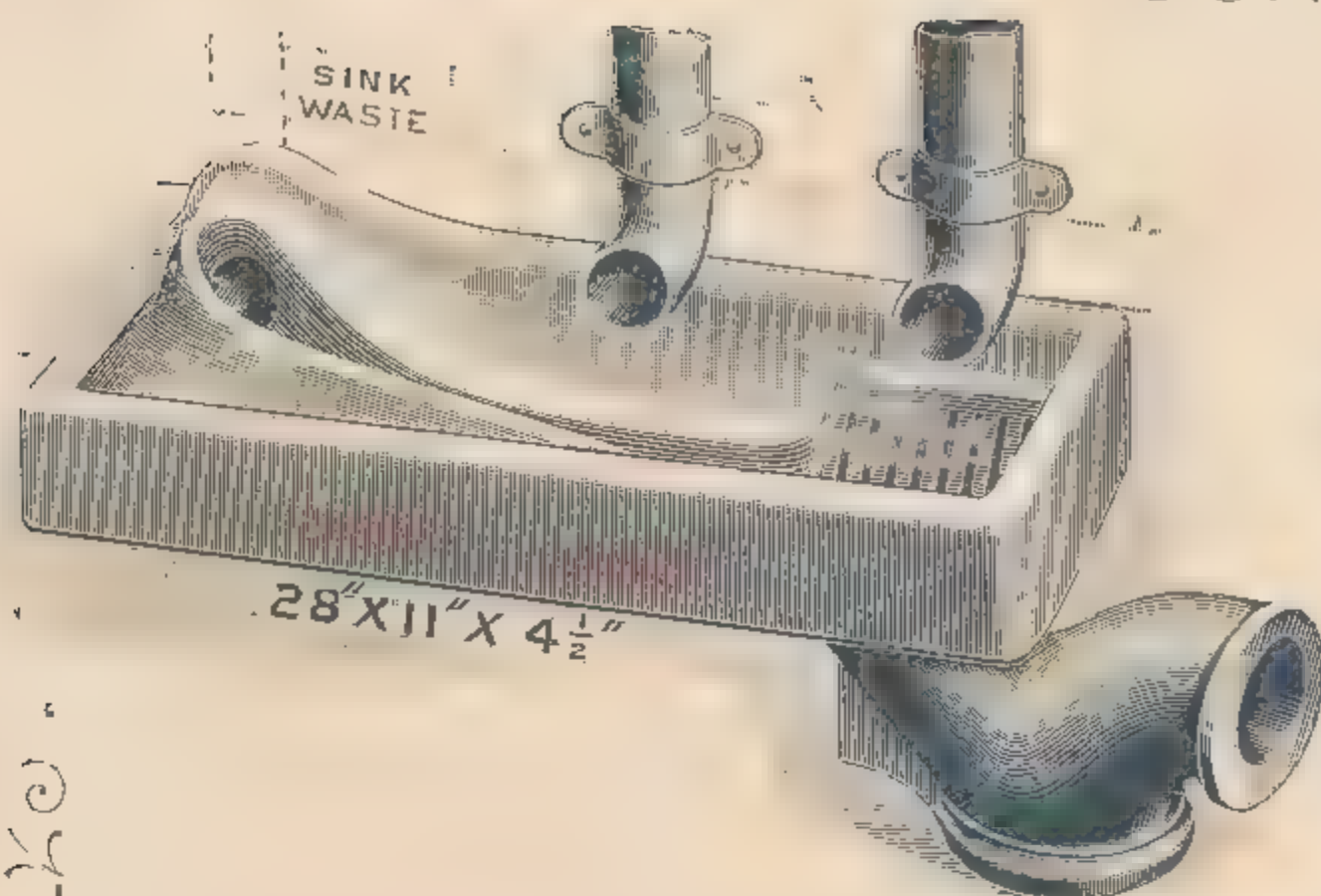
do.

do.

for other ranges at reasonable prices.

**J. DUCKETT & SON, Ltd., Manufacturers of Sanitary Ware, Burnley, Lancashire.**





# DUCKETTS'

PATENT SELF-CLEANSING

## Channel Gulley

PREVENTS  
SPLASHING.

IS NEAT AND  
SANITARY.

MEETS RECOM-  
MENDATIONS

IN MODEL

BYE-LAWS OF

LOCAL GOVMT.  
BOARD.

As supplied to Her Majesty's Government, Corporations, Railway and Canal Companies, Hospitals, Infirmeries, etc.

### Description

The **BLOCK** measures 28" x 11" x 4½", and is made of Amber Enamelled Stoneware. It has a special Channel as shewn, also an inlet large enough to receive a 2" earthenware waste pipe. Two sloping malleable iron gratings are firmly hinged to it, ½" apart at the points. The gratings so fixed render the trap accessible and offer less resistance to the flow of the water than gratings set level.

The **TRAP** is very small, holding only one pint of water, and it can be turned in any direction to suit drain connection.

The **GULLEY** is rendered self-cleansing by the following combination, viz:—1.—Reduced water space in trap. 2.—Two sloping gratings in lieu of one set level. 3.—The Special Channel.

*This arrangement produces much more than an ordinary flush, and prevents accumulations.*

Medical Officers of Health, and Sanitary Engineers, strongly recommend this special Self-Cleansing Trap in preference to the insanitary deep trap, which provides storage for a large quantity of filth.

### Advantages

**No sewer gas** can enter the dwelling through the sink waste.

**No stench** can arise from trap, as no lodgment of filth occurs.

**No saturation of surrounding soil** or adjoining foundations by slop-water. This is prevented by the rim under dishstone fitting into the socketted top of trap.

**No splashing or overflow**, as this is prevented

by the curved overhanging part at inlet.

**No annoyance or loss through gratings being removed**, as they are securely hinged and leaded-in, and still allow of ready access to trap.

**The extra flush** cleanses the house drain.

**The shield** which covers sink waste pipe protects it from wilful or accidental injury.

**Grates** being of malleable iron are very durable.

**Prices:** { **GULLEY BLOCK**, as per illustration, including Malleable Iron Hinged Grates, on rails at Burnley, 7s. 6d. each. Trap for ditto, 2s. 6d. each } 10s. 0d. complete  
When Grates are Galvanized 1s. 0d. extra.

IN ORDERING state whether right or left hand arrangement is required. Illustration shews right hand.

WEIGHT of complete Gulley about 90 lbs., or 25 to a ton.

NOTE. This Gulley works admirably in connection with Ducketts' Patent Slop-Water Closet, Arrangement B.

**J. DUCKETT & SON, Ltd.**, Manufacturers of Sanitary Ware, **Burnley, Lancashire.**





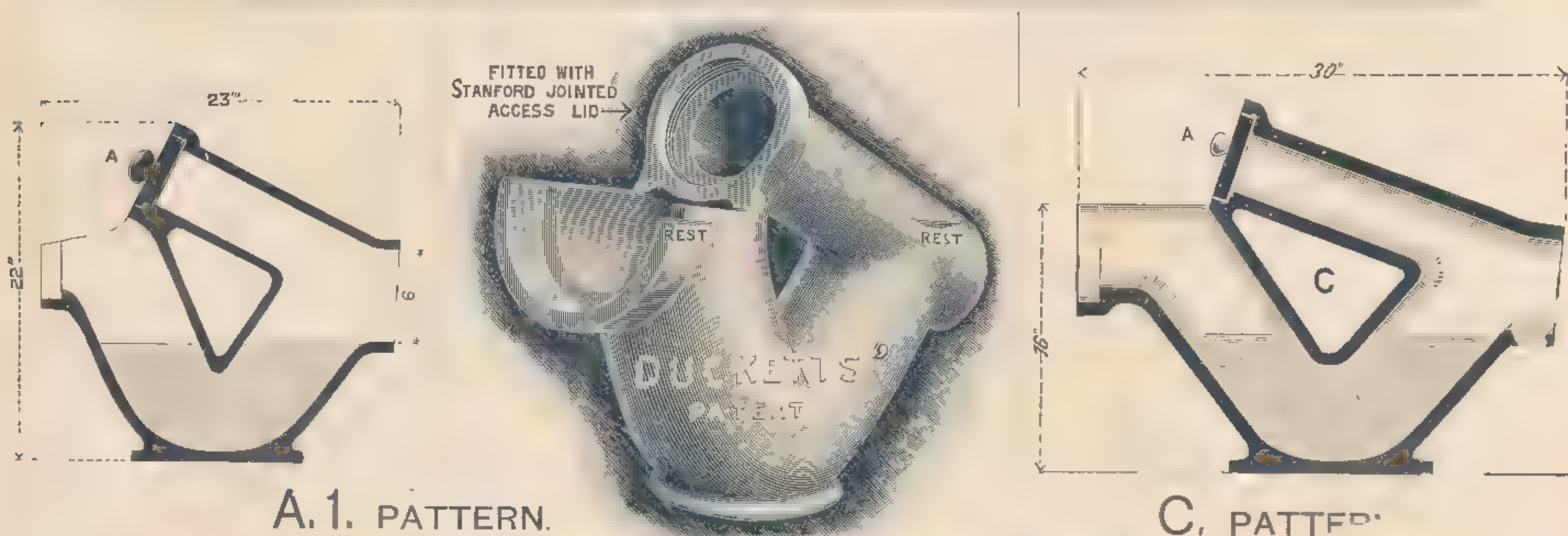
# DUCKETTS'

PATENT

## Intercepting Traps

WITH RESTS FOR SPIRIT LEVEL.

THE ONLY SAFE INTERCEPTOR ON THE MARKET!



A.1. PATTERN.

C. PATTERN.

THE LANCASHIRE SANITARY INSTITUTE awarded it the Health Exhibition, Liverpool, 1884.

ARCHITECTS, SURVEYORS, SANITARY INSPECTORS, &c., should insist on this Interceptor being used, as it is necessary to ensure the proper trapping of Drains.

The Local Government Board approve of the use of Intercepting Traps, as will be seen from the following Extract from the "Surveyor," October 25th, 1894:—

"Those who refuse to believe in the utility of the Intercepting Trap have certainly not the support, moral or otherwise, of the Local Government Board, as certain members of the Hornsey Local Board have now discovered in a somewhat unflattering manner. We need scarcely remind our readers of the very able report which was drawn up by Mr. DE COURCY MEADE on this subject, and presented to the Board. In spite of this report, which was warmly supported by the most enlightened section of the Board, a majority, led by the building interest, declared against the use of the Intercepting Trap. The Local Government Board have now declared against them in unmistakable terms, refusing to sanction the omission from the bye-laws of a compulsory clause for the provision of Intercepting Traps, and unkindest cut of all stating that the reasons arrived at by the majority are fallacious and their experience with reference to the trap quite opposite to that in all other parts of the country. The discomfited and stultified majority are to be congratulated on the unenviable distinction they have secured for their Board, and Mr. Meade on the complete justification his views have received."

PRICES ON APPLICATION.

### CAUTION.

It having come to our knowledge that Intercepting Traps with Rest for Spirit Level are being made and sold by persons without our license, we give notice that it is our intention to take legal proceedings against any person or persons who infringe our patent. We caution Merchants, Contractors, Builders and others who purchase or make Intercepting Traps with Rests for Spirit Level which do not bear the name of the patent and the number and year of the patent, viz. 16,704 of 1893.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

1774

1774

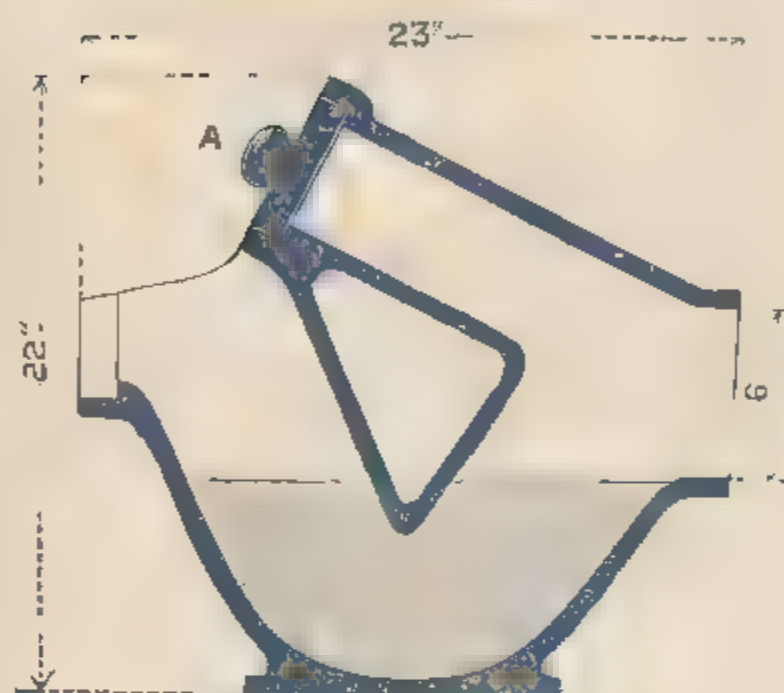
1774



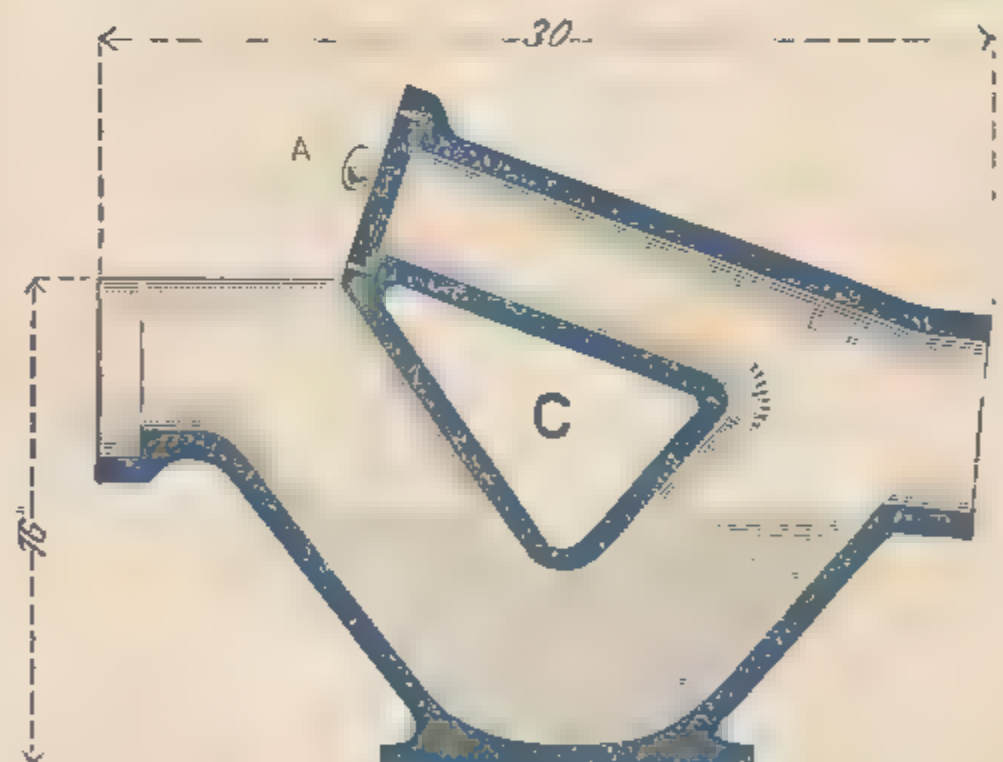
FITTED WITH  
STANFORD JOINTED  
ACCESS LID—→



# DUCKETTS' LEVEL REST INTERCEPTORS.



Pattern A.1.



Pattern C.

**Awarded The Bronze Medal of  
The Sanitary Institute,  
Liverpool Exhibition, 1894.**

The utility of Ducketts' Level Rests for ensuring accuracy in the fixing of Intercepting Traps in manholes has now been fully recognised by sanitary specialists and users of traps.

Architects, Surveyors, and Sanitary Inspectors prefer Interceptors with Level Rests to any others, and J. Duckett & Son, Ltd., confidently recommend their Interceptors for general adoption.

The Local Government Board approve of the use of Intercepting Traps, as will be seen from the following Extract from The "Surveyor," October 25th, 1894:—

"Those who refuse to believe in the utility of the Intercepting Trap have certainly not the support, moral or otherwise, of the Local Government Board, as certain members of the Hornsey Local Board have now discovered in a somewhat unflattering manner. We need scarcely remind our readers of the very able report which was drawn up by Mr. DE COURCY MEADE on this subject, and presented to the Board. In spite of this report, which was warmly supported by the most enlightened section of the Board, a majority, led by the building interest, declared against the use of the Intercepting Trap. The Local Government Board have now declared against them in unmistakable terms, refusing to sanction the omission from the bye-laws of a compulsory clause for the provision of Intercepting Traps, and—unkindest cut of all—stating that the reasons arrived at by the majority are fallacious, and their experience with reference to the trap quite opposite to that in all other parts of the country. The discomfited and stultified majority are to be congratulated on the unenviable distinction they have secured for their Board, and Mr. Meade on the complete justification his views have received."

**No Extra Charge** is made for Duckett's Intercepting Traps bearing this useful improvement.

PRICES AND PARTICULARS ON APPLICATION.

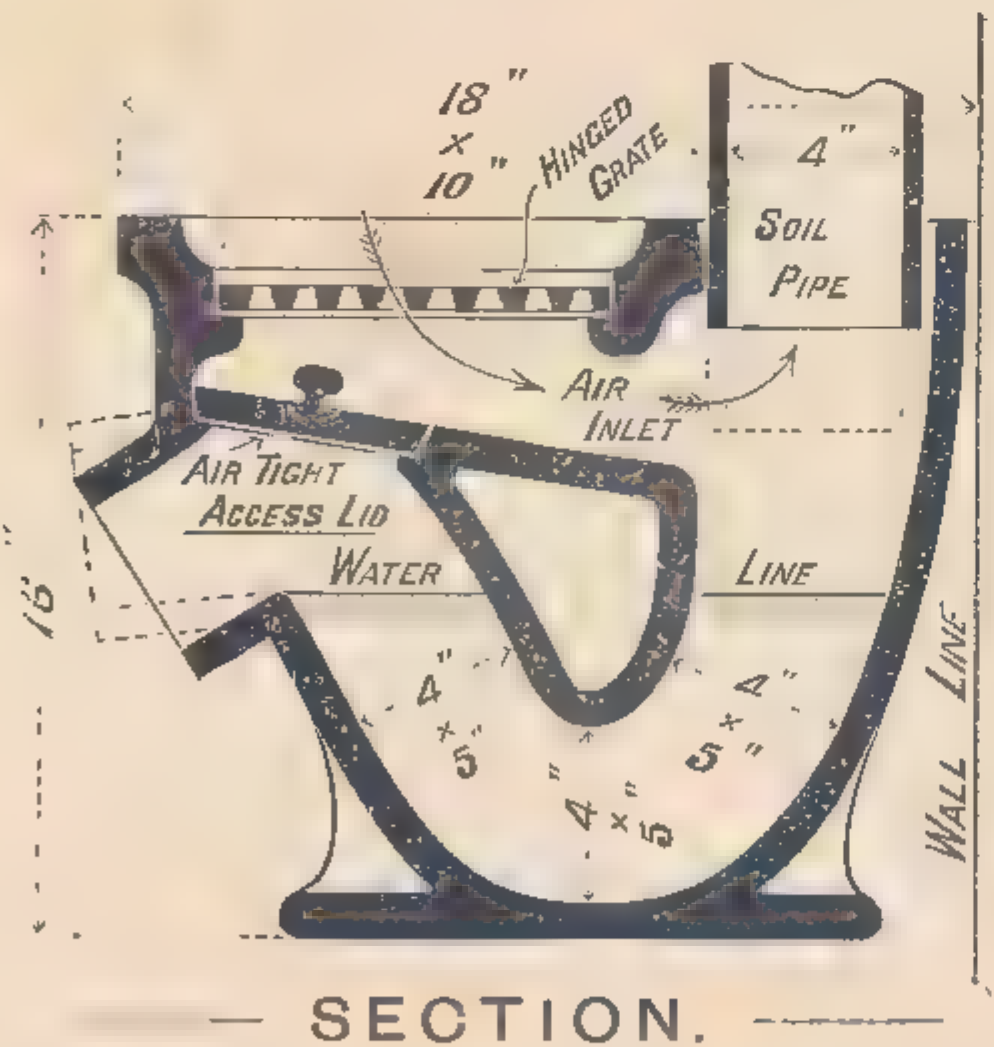
Be sure you obtain DUCKETTS' LEVEL REST INTERCEPTORS as their good qualities are now firmly established.

J. DUCKETT & SON, LTD., Manufacturers of Sanitary Ware, BURNLEY, Lancashire.





SAFE AND  
... RELIABLE.



# DUCKETTS'

SPECIAL

## Disconnecting Trap

### Description.

THIS TRAP is made of highly-glazed Stoneware, and combines important advantages not possessed by other Disconnecting Traps

By its use the soil pipe is disconnected from the drain, and the conduit between grate and foot of soil pipe provides for the efficient ventilation of the soil pipe.

The dished top has a Patent Hinged Grate secured to it, and acts not only as an air inlet, but also as an inlet for surface water.

The Trap has a deep seal. A movable lid with special air-tight joint gives ready access to trap and to drain.

### Advantages.

1. Drain well Trapped by Deep Seal.
2. Access to Drain and to Trap provided.
3. Soil pipe thoroughly ventilated.
4. Syphonage of Closet Trap prevented.
5. It acts as Yard Gully.

Price, on Rails at Burnley = = = = 10s. 6d. each.

EXTRA IF GRATE IS GALVANIZED - - 1s. 0d. EACH.

WEIGHT, 66 lbs. each complete.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



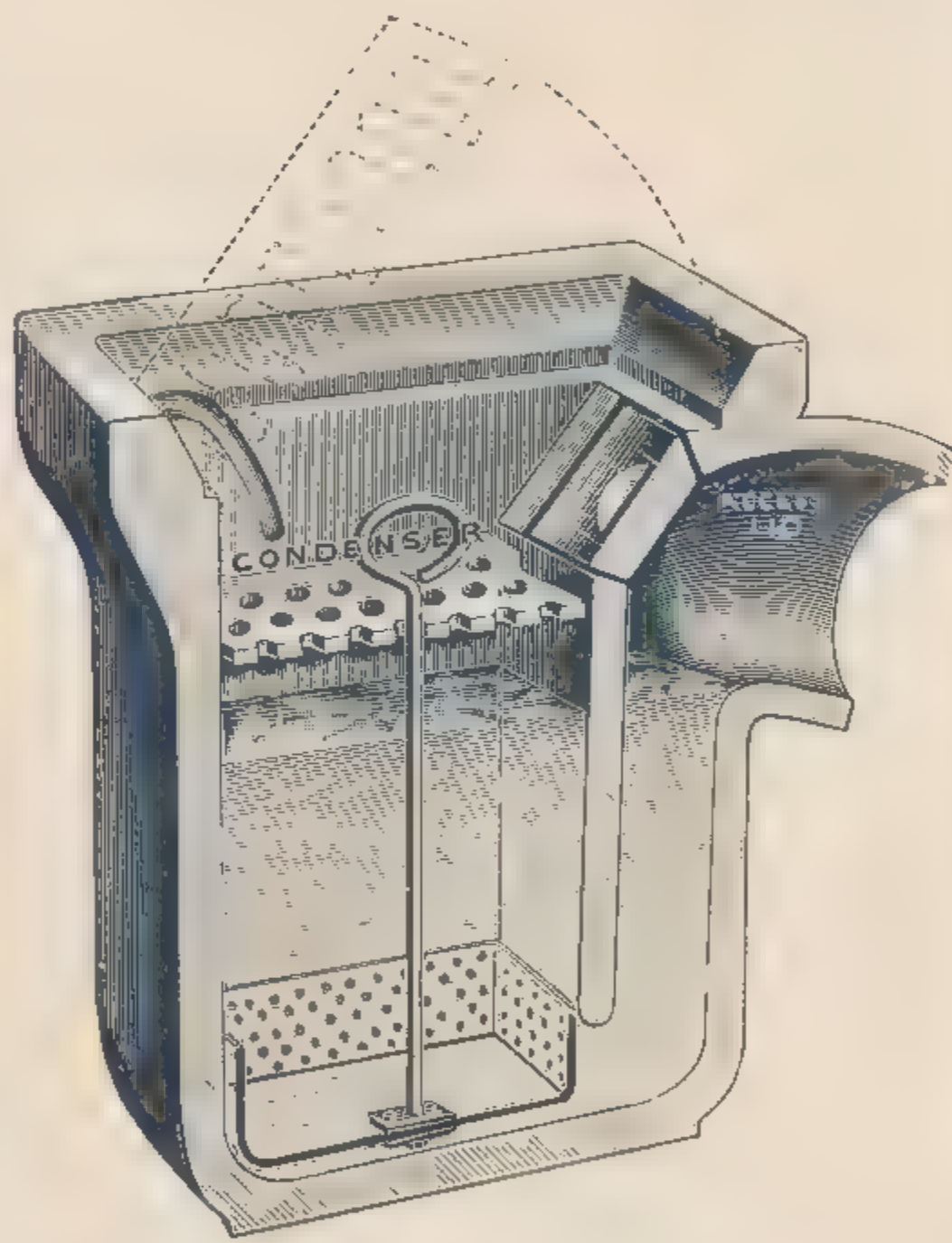
# DUCKETTS'

## PATENT

# Grease Interceptor.

**A REAL INTERCEPTOR.**

**AN EFFECTIVE TRAP.**



— SECTIONAL PERSPECTIVE —

### — Description. —

This Patent Grease Interceptor consists of a stoneware gulley with a specially deep seal. A perforated mud box of galvanized iron is fixed below the water line to intercept solid matter and so prevent its passage into the drain. This box is provided with a handle for easy removal after surface grating is raised.

Between the top water level and the underside of the surface grating a loose perforated tray or condenser of galvanized iron is placed, which is supported on lugs. The object of this tray is to cool the hot greasy water as it is discharged into the gulley, and by so doing to congeal the grease, whereby a large percentage of it is intercepted and so prevented from passing forward to the drain or sewer.

The holes in the tray are not plumb under those of the upper grating, so that the greasy water is obstructed in its fall.

The handle of the mud box extends upward through the perforated tray, so that both mud box and tray may be removed by one lift for cleaning purposes.

An access lid with "Stanford" joint is provided for inspection purposes.

### PRICE, on Rails at Burnley:—

SIZE.		£	s.	d.
16" x 13½"	19" deep (outside measurements), with 6" or 4" outlet, complete with Mud Box, Condenser, and Patent Hinged Surface Grating .....each	15	0	

Weight 109 lbs. each, complete.

Larger sizes at proportionate prices.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

## Arrangement No. 1.

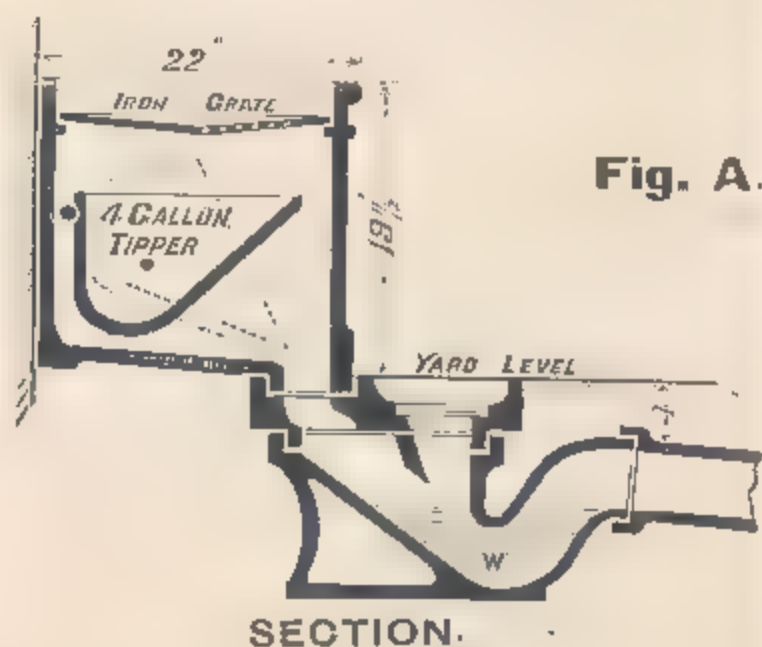


Fig. A.

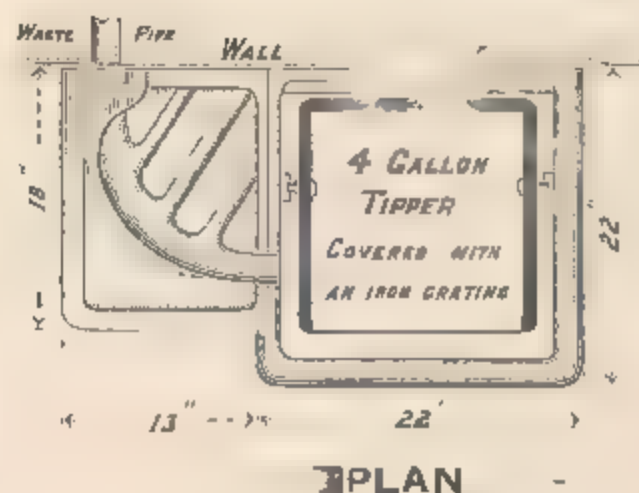


Fig. B.

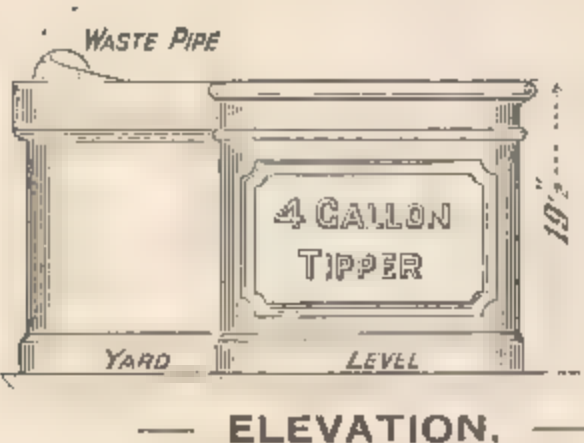


Fig. C.



Fig. D.

SECTION OF CHANNELLED DISH.

## Arrangement No. 2.

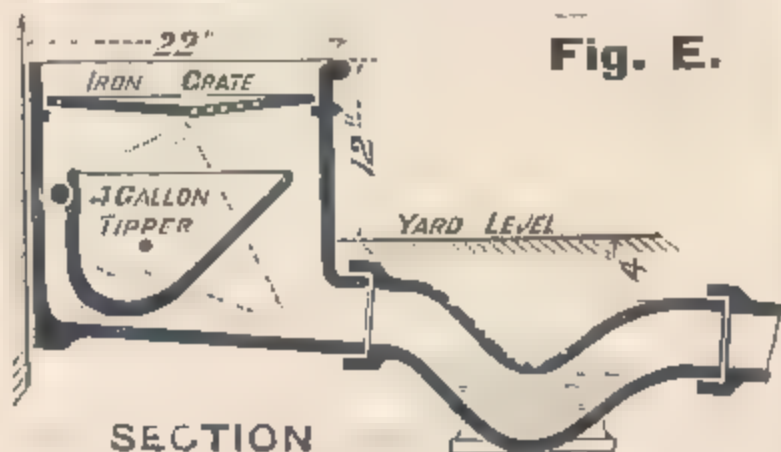


Fig. E.

The Channelled Dish shown in Figs. B, C, and D. accompanies this arrangement when required

# DUCKETTS'

— PATENT AUTOMATIC —

## GREASE COLLECTOR & FLUSHER

**SANITARY SELF-CLEANSING—ACCESSIBLE.**

**DESCRIPTION.** These appliances have been designed for efficiency, and require little attention. Greasy water, before entering the tipper, flows along an open channel, and is cooled by exposure to the air. When nearly full, the tipper automatically tilts, discharging its contents (including congealed grease) through the drain. The shields in Figs. B and G are formed to prevent splashing.

**Arrangement No. 1** has a 4-gallon tipper in panelled Box, top of which is 19½-in. above yard level as shewn on Fig. A. The channelled dish (Fig. B) may be dispensed with, and sink water discharged direct upon iron grate if preferred.

**Arrangement No. 2** has a 4-gallon tipper in panelled Box, top of which is 12-in. above yard level as shewn on Fig. E.

**Arrangement No. 3** has a 3-gallon tipper and Box with channelled cover fixed at yard level, (see Figs. F and G). Margin tiles 5-in. x 2-in. are supplied to facilitate access to tipper. Trap shewn on Fig. E may be used if desired.

**NOTE.**—The apparatus may be used in connection with Ducketts' Slop-Water Closets, Arrangements A and A1.

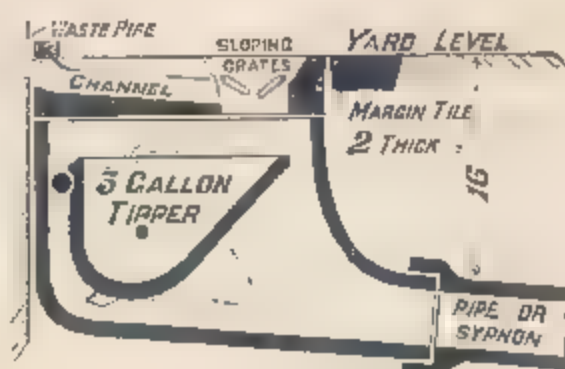
### PRICES on Rails at Burnley in Salt-Glazed Ware:

	£	s.	d.
<b>Arrangement No. 1.</b> Including 4-gallon Tipper and Box, with strong dished iron grate, channelled dish and support, and trap, as shewn on Figs. A, B, C, and D. ....	1	10	0
<b>Arrangement No. 2.</b> —Including 4 gallon Tipper and Box, with strong dished iron grate, channelled dish and support, and 4-in. syphon trap, as shewn on Fig. E. ....	1	7	0
<b>Arrangement No. 3.</b> —Including 3-gallon Tipper and Box, channelled dish fitted with two sloping grates and six 5-in. x 2-in. margin tiles, as shewn on Figs. F and G .....	1	3	0

Extra for Tipper and Box in Amber Enamelled Ware 20% on above prices.

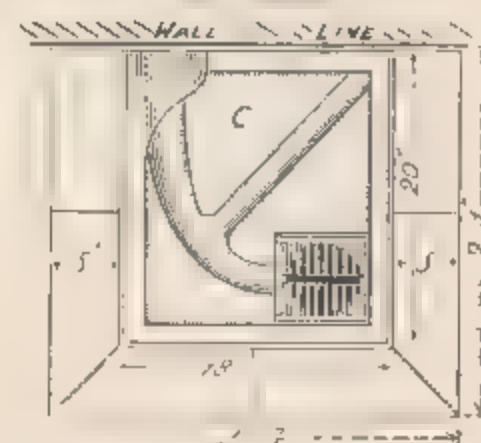
## Arrangement No. 3.

Fig. F.



— SECTION. —

Fig. G.

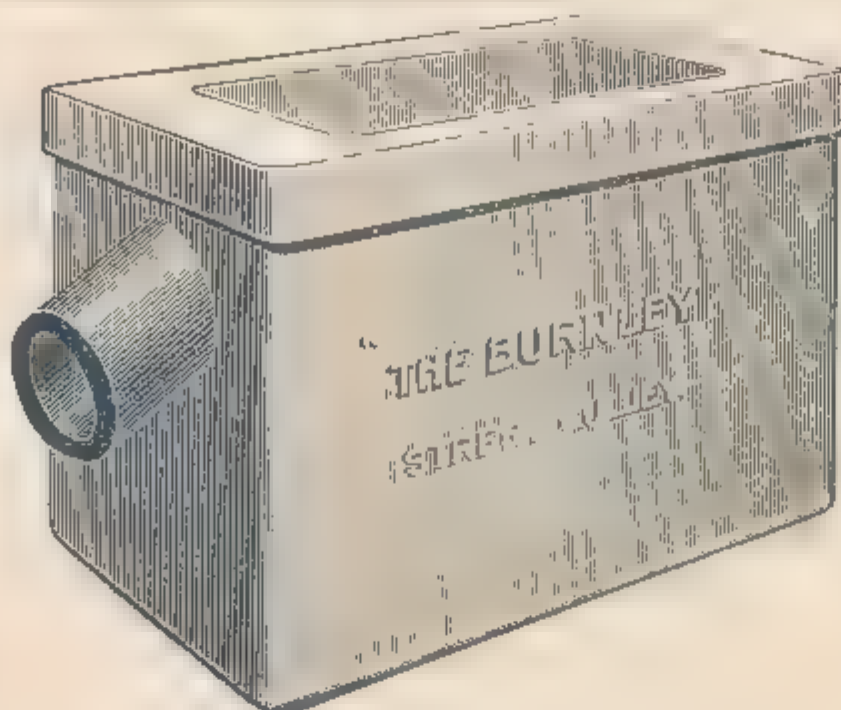
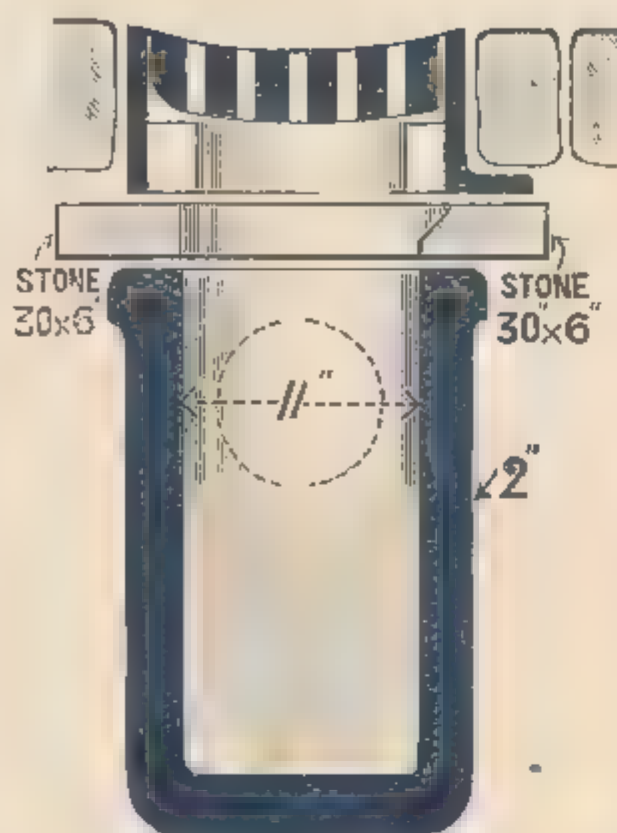


PLAN

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



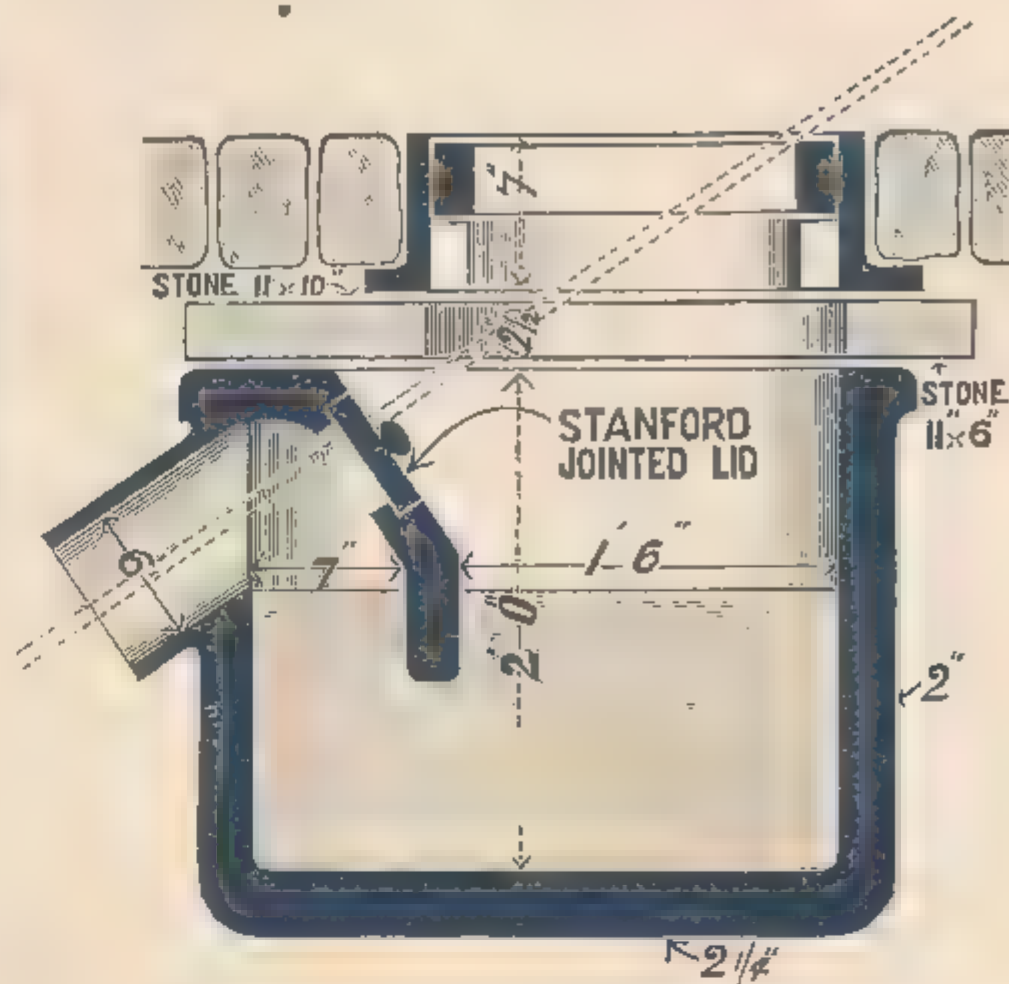
# DUCKETTS' Street Gulleys.



**"THE BURNLEY" STREET GULLEY**  
REGISTERED NO 306527.

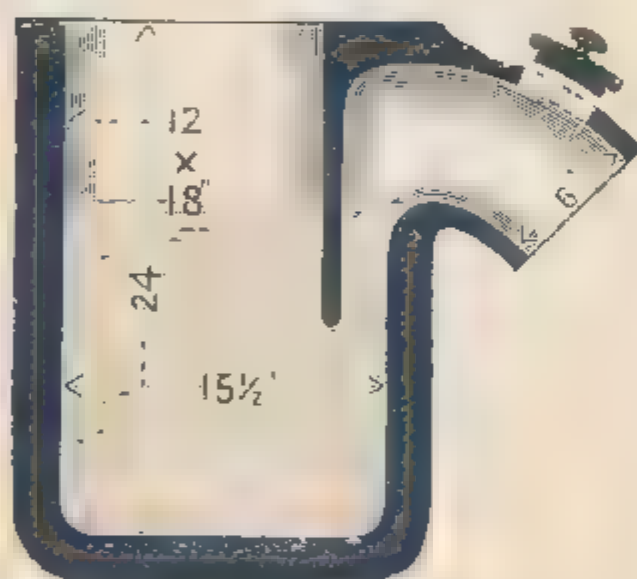
This Gully is strong, safe, easily cleaned, and has a broad base. It can therefore be strongly recommended as an efficient Gully.

It is made in various sizes, and if required can be supplied with deeper seal than shown on drawing.

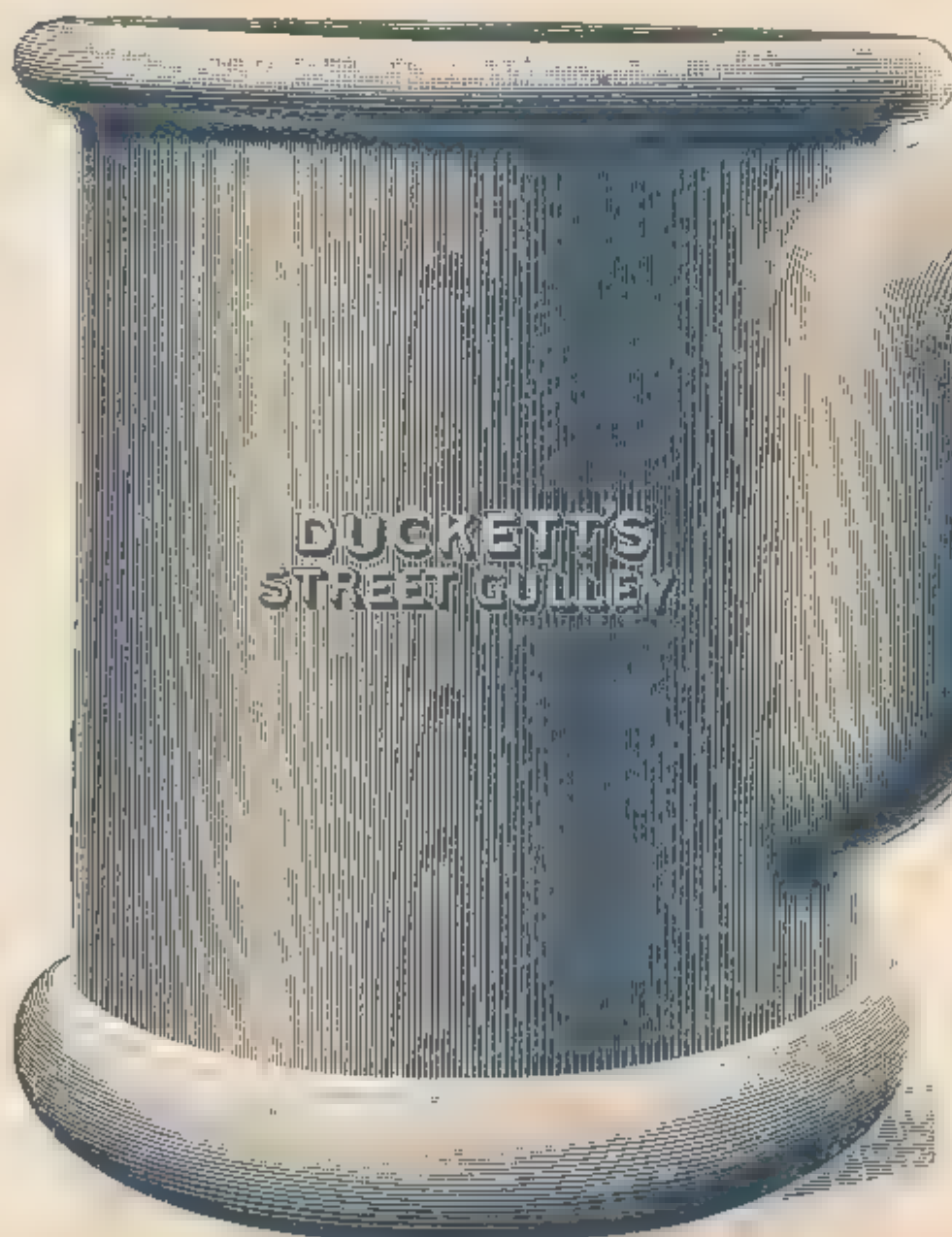


**No. 60**  
**RECTANGULAR.**

Stanford Joint.



**No. 15a.**  
**CIRCULAR.**



Bottoms of these Gulleys are made three different ways, namely:—

A—As per Sections No 15a and 60

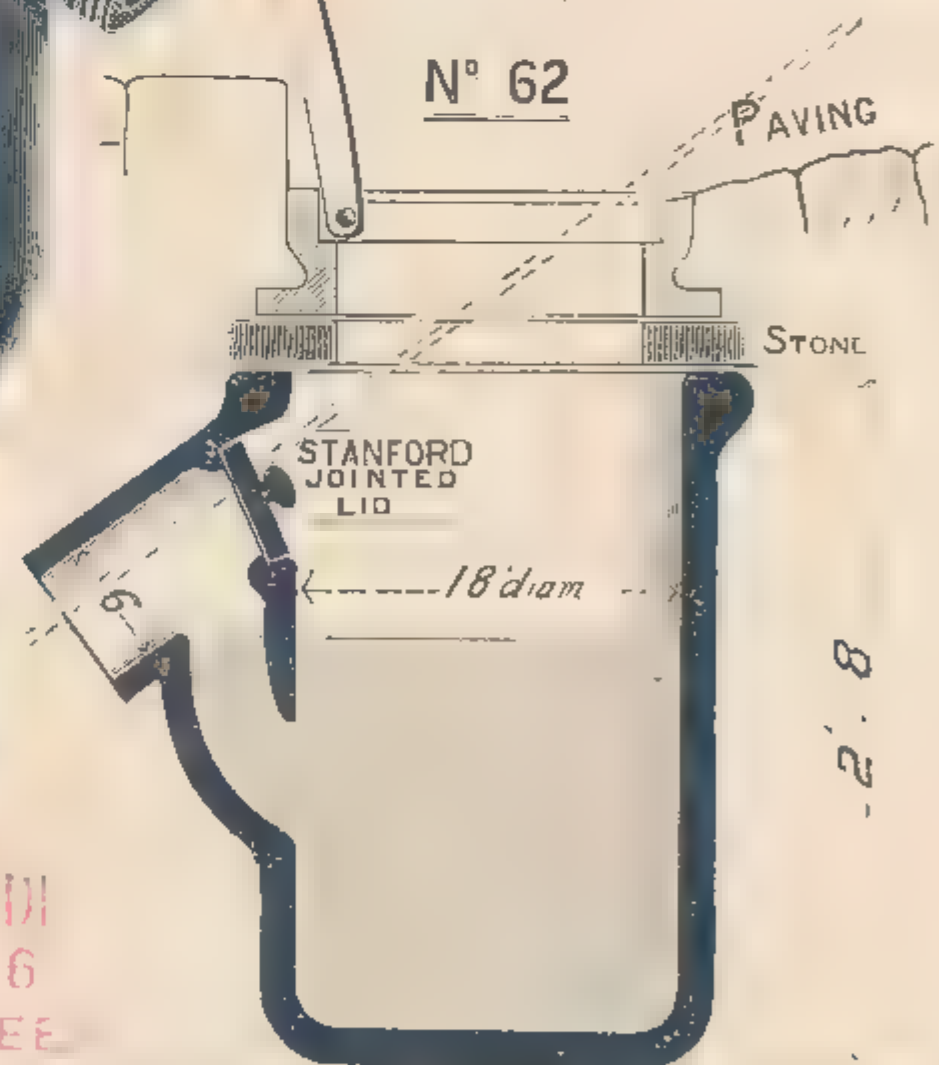
B Bottom with Stanford Jointed Socket

C Bottom with deep Socket firmly cemented to body. Joint prepared as per sketch.

B and C are better glazed inside



**No 62**



## PRICES on Rails at Burnley:—

No. 15a, 9-in. x 6-in..... 3/6 each.	No. 15b, 15-in. x 6-in..... 8, 3 each.	No. 60 ..... 15/- each.
No. 15a, 12-in. x 6-in. .... 5/- ,,	No. 15c, 18-in. x 6-in..... 13 - ,,	No. 62 ..... 17/- ,,
"The Burnley" Street Gully ( 1-ft. 6-in. deep...15,- Weight 20 2 1/2 each	2-ft. 0-in. deep...17,6 Weight 30 2 1/2 each	2-ft. 6-in. deep...20 - Weight 40 2 1/2 each
		3-ft. 0-in. deep ..22/6 each. Weight 50 2 1/2 each

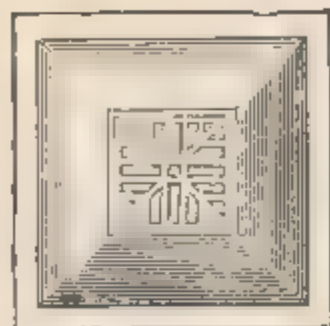
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS' Traps, Gulleys, &c.

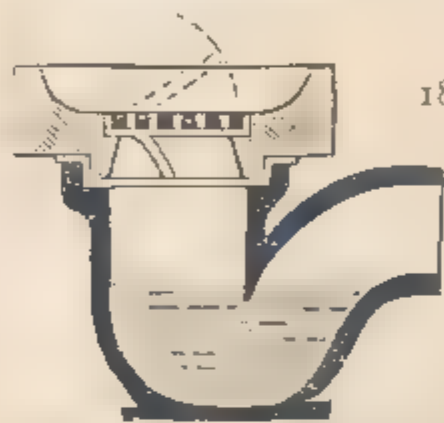
## GULLEYS with Patent Hinged Grates.

$\frac{3}{4}$  INCH SCALE.



### No. 3a.

12" x 12" x 3 $\frac{1}{2}$ "	Dishstone with 6" x 4" Trap.	each
do do do	6" x 6"	do
14" x 14" x 4"	6" x 4"	do
do do do	6" x 6"	do
do do do	9" x 4"	do
do do do	9" x 6"	do
18" x 18" x 4 $\frac{1}{2}$ "	6" x 4"	do
do do do	6" x 6"	do



### No. 18.

P TRAP  
WITH GRATING COMPLETE.

6" x 4" ..... each  
9" x 4" ..... each



These can be supplied 2-ins  
deeper than shewn at.....  
each extra.

*Ducketts' No. 3a Gulleys have great advantages over those generally used.*

THE PROJECTING RIM on underside of Dishstone, together with the socketted top of Gully, prevent slopwater from draining into the surrounding soil or adjoining foundations.

THE GRATES are hinged to prevent removal by mischievous persons. The ordinary Grate is subject to this disarrangement, which is a source of annoyance to both landlord and tenant.

### No. 4.

TRAP.

6" x 4" SHALLOW.  
..... each



These are preferred by  
some Surveyors, being  
more self cleansing

## YARD TRAPS.

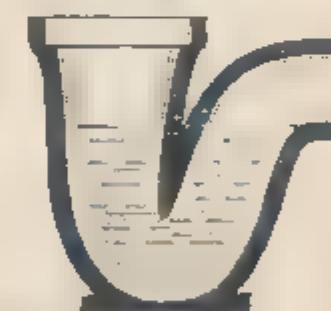
### No. 5.

6" x 4" TRAP  
.....each



WARE  
GRATE

### No. 27. —



6" x 4" GULLEY ..... each.  
With Clay Grate ..... extra.  
Hinged Grate } ..... extra.  
With 6 inch }

### No. 26.

Square Top. 6" x 6" TRAP ..... each



### No. 12. —

6" x 6" TRAP..... each.



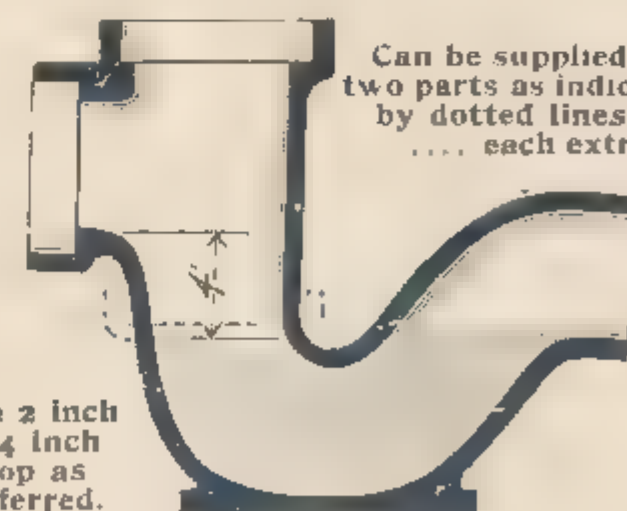
### No. 2.

6" x 4" TRAP  
each.



## Disconnecting Trap.

### No. 28. —



Can be supplied in  
two parts as indicated  
by dotted lines at  
..... each extra.

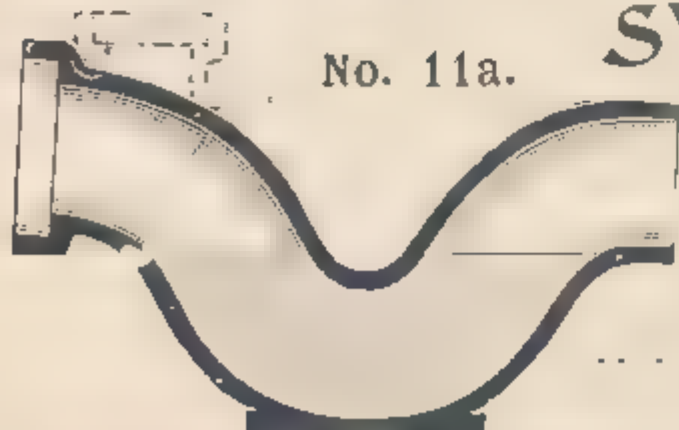
With 2 inch  
or 4 inch  
drop as  
preferred.

PRICES:—4 inch .. each.  
6 inch ..... each.  
9 inch ..... each.

## SYPHON TRAPS.

### No. 11a.

Syphon  
6 Trap  
..... each.



### No. 11.

Syphon 4" Trap.  
..... each.



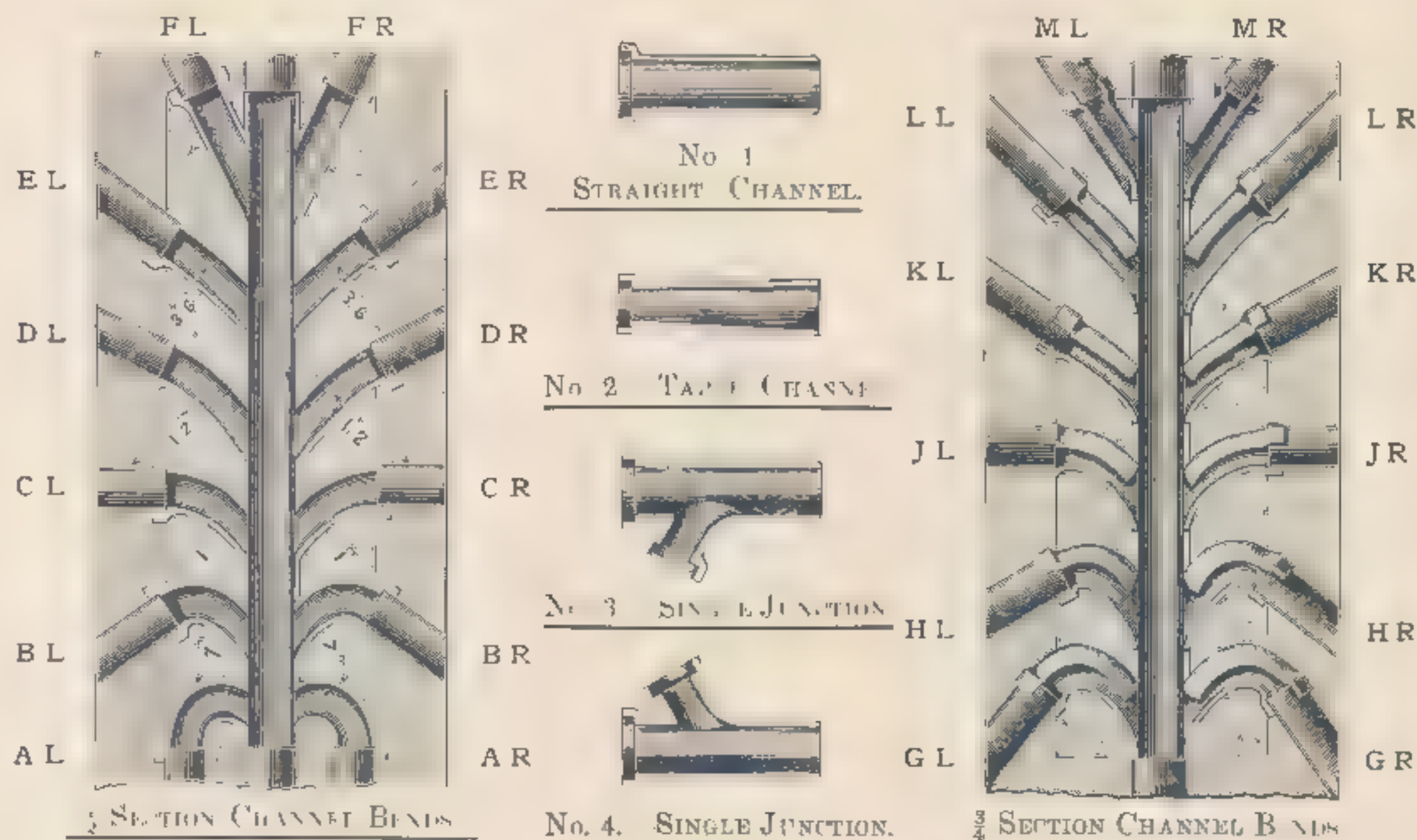
NOTE. The above Traps can be supplied with Inlets at the back or sides as indicated by dotted lines at.....each extra  
S, P, or Q Traps supplied as required

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# — DUCKETTS' —

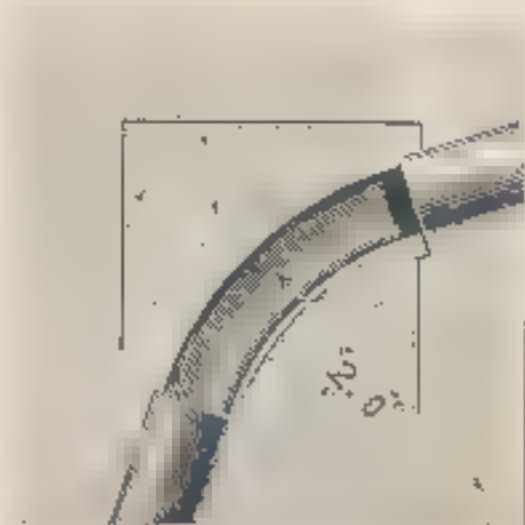
THESE CHANNELS are made in White and Cane Glazed Ware, and of the best workmanship. The Glaze is thoroughly incorporated with the ware and is not liable to shell as it is fired to a very high temperature.



**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

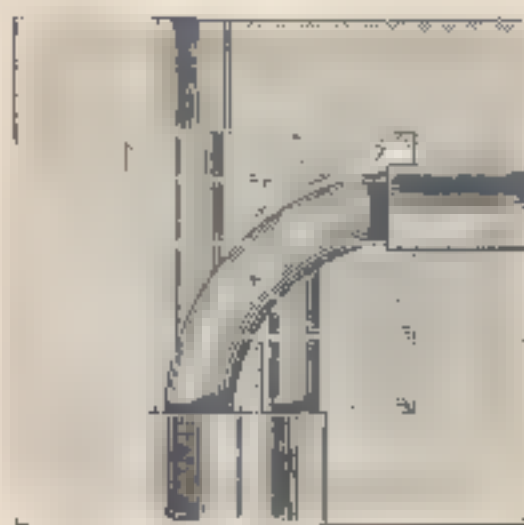
# Enamelled Channelling. —

O



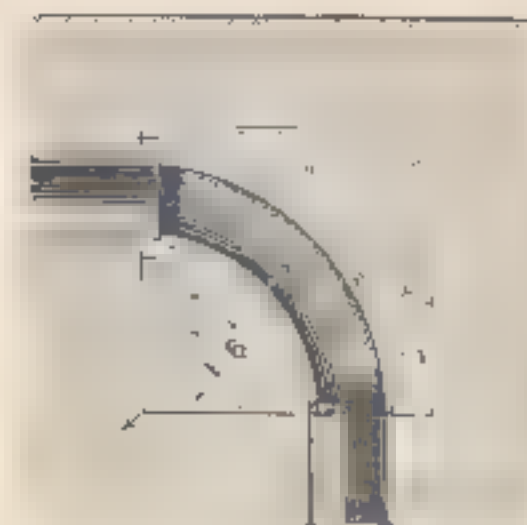
MAIN CHANNEL BEND

P



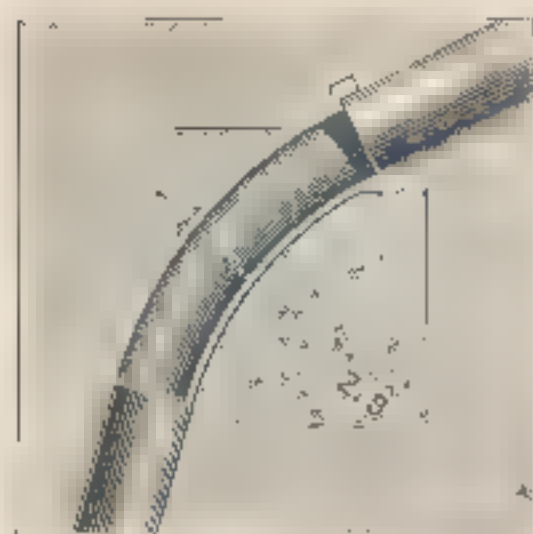
MAIN CHANNEL BEND

R



MAIN CHANNEL BEND

S



MAIN CHANNEL BEND

T



MAIN CHANNEL BEND

## PRICES, on Rails at Burnley:

	WHITE ENAMEL				CASE ENAMEL			
	4 in.	6 in.	8 in.	10 in.	4 in.	6 in.	8 in.	10 in.
$\frac{1}{2}$ Section Channel Bends A to F.....each,	2	3	5	7	2	3	5	7
$\frac{3}{4}$ Section Channel Bends G to M .....	2	6	5	3	2	3	3	1
$\frac{1}{2}$ Section Main Channel Bends O,P,R,S,T, each,	3	4	5	0	3	0	4	6
$\frac{3}{4}$ Section Main Channel Bends O,P,R,S,T, each	4	0	5	0	4	0	5	0
No. 1--Straight Channels per foot	0	0	1	2	0	7	0	9
Nos. 3 and 4 -- Single Junctions .....each,	2	9	5	0	2	3	3	10
No. 5. Double Junctions .....each,	3	10	6	8	3	4	5	6
Nos. 6, 7, & 8 Junction Bends .....each	5	6	8	3	5	0	7	6
	6 in. to 4 in.				9 in. to 6 in.			
No. 2.—Taper Channel (in 2, 2½, and 3 feet lengths) .. ... each	1	6	2	3	1	3	1	2
Nos. 8 & 10. Taper Bend $\frac{1}{2}$ Section.....	3	3	5	6	3	0	5	3
Nos. 8 & 10 — Taper Bend $\frac{3}{4}$ Section.	4	0	6	6	3	6	5	10

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS'

## SLOPSTONE- PIPE PROTECTOR

*Registered*  
*Nº 250009*



DUCKETTS' No. 3a GULLEYS with Patent Hinged Grates, have Great Advantages over those generally used

The Projecting Rim on underside of dishstone, together with the socketted top of Gulley, prevent slopwater from draining into the foundations of the building.

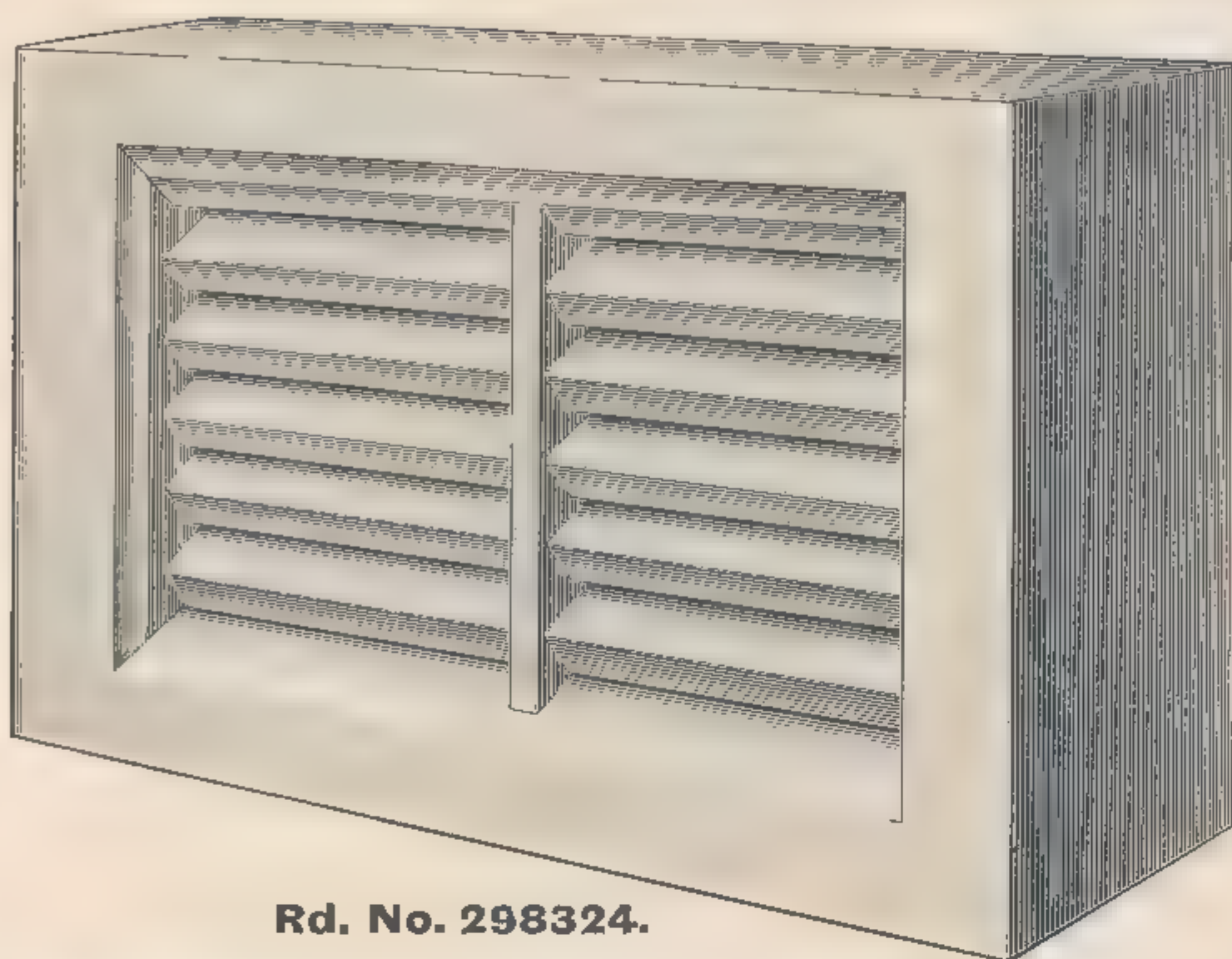
The Grates are hinged to prevent removal by mischievous persons. The ordinary Gate is subject to this disarrangement, which is a source of annoyance to both landlord and tenant.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

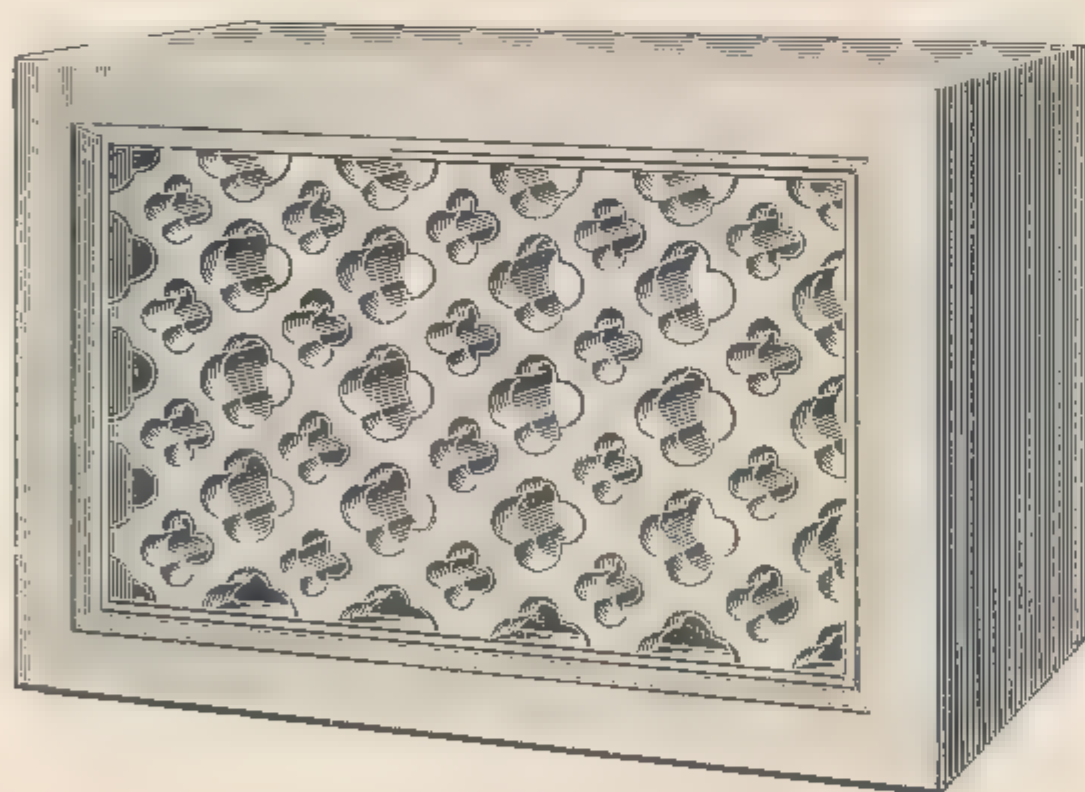
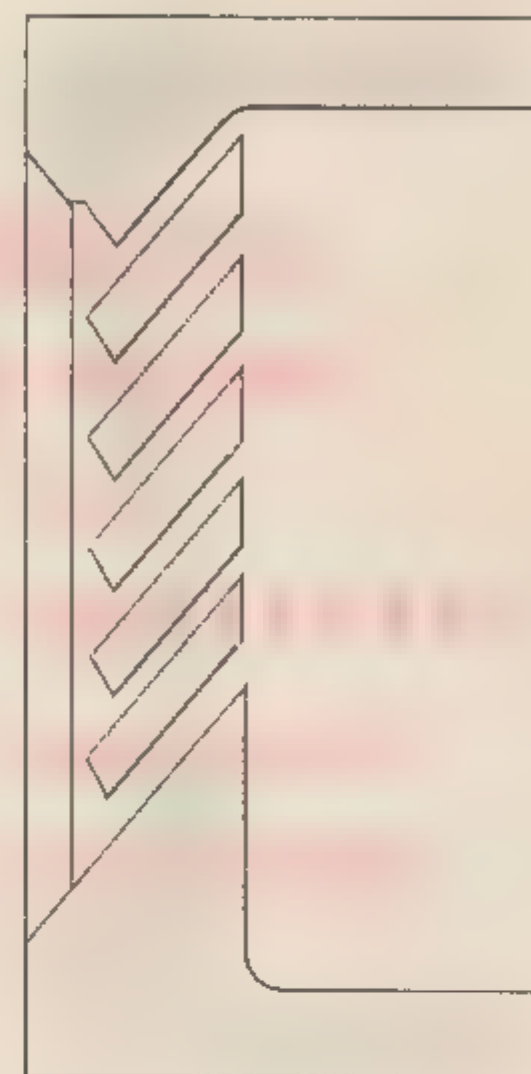


# Ducketts' Air Bricks.

— REGISTERED DESIGNS. —



**Rd. No. 298324.**



**Rd. No. 292753.**

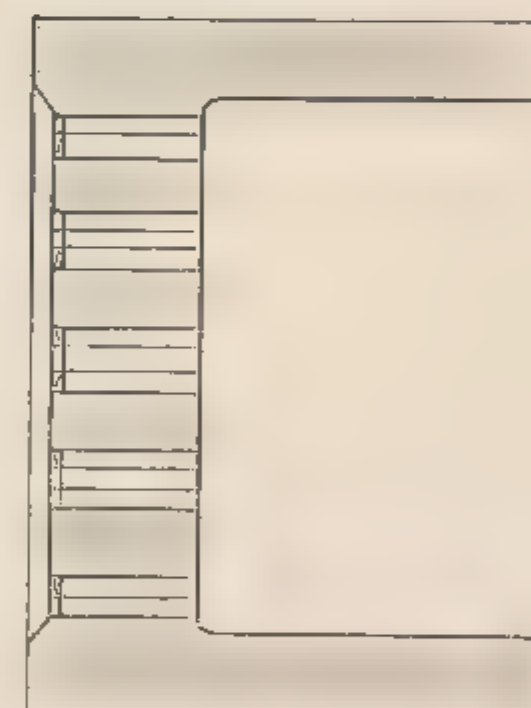
## — Prices. —

### LOUVRE PATTERN.

12" × 9½" × 4½" .....	1s. 3d. each
9" × 9½" × 4½" .....	9d. „
9" × 6¼" × 4½" .....	6d. „
9" × 3½" × 4½" .....	3d. „

### QUATREFOIL PATTERN.

9" × 6¼" × 4½" .....	6d. each
----------------------	----------



## — Description. —

These Ventilating or Air Bricks are made of Salt-Glazed Ware; also of Red or Buff Unglazed Ware. They are well pressed and finished, and handsome in appearance.

They are more substantial and satisfactory than iron ventilators, and do not require painting.

The Bricks may be placed end to end or side by side when a large amount of air-space is required.

**LOUVRE PATTERN.** These are designed and constructed to prevent rain passing through or into the walls. This form of Ventilator is very efficient.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



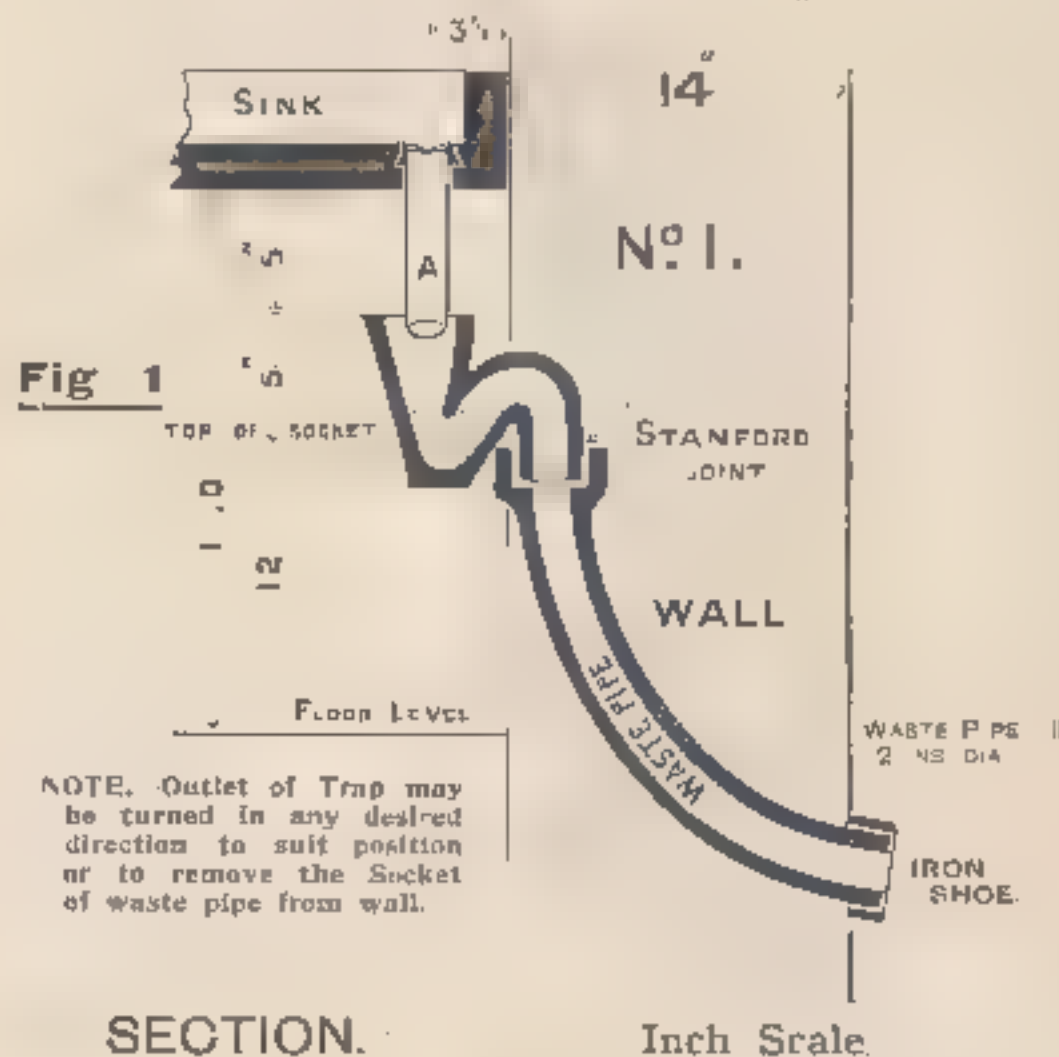
# DUCKETTS' PATENT

## CHEAP—CLEANLY

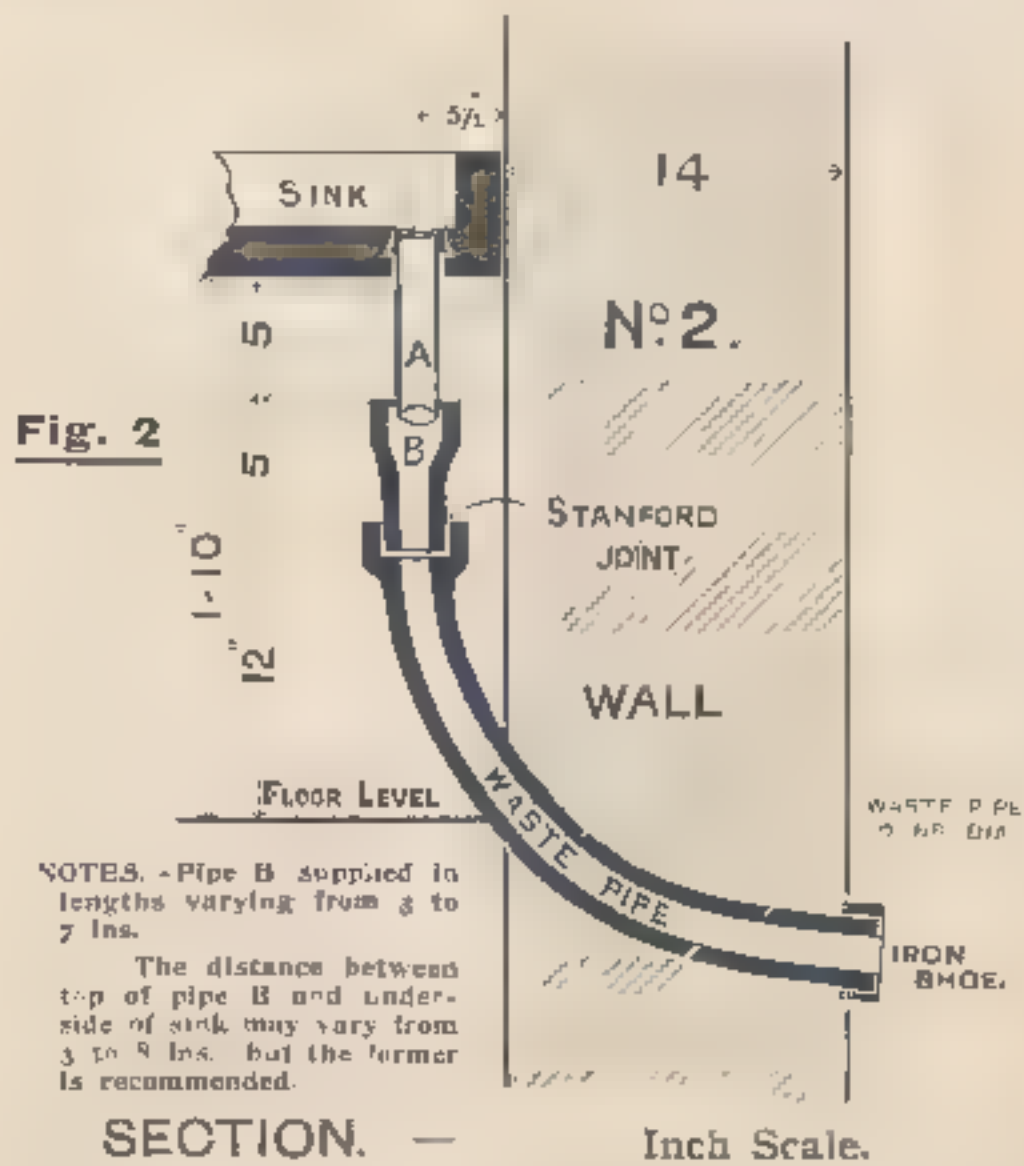
NOTE. The distance between top of trap and underside of sink may vary from 3 to 4 inches, but the former is recommended.

NOTES. Lead Pipe A. is made in lengths varying from 3 to 9 inches.

The Bent Pipes are made in various lengths.



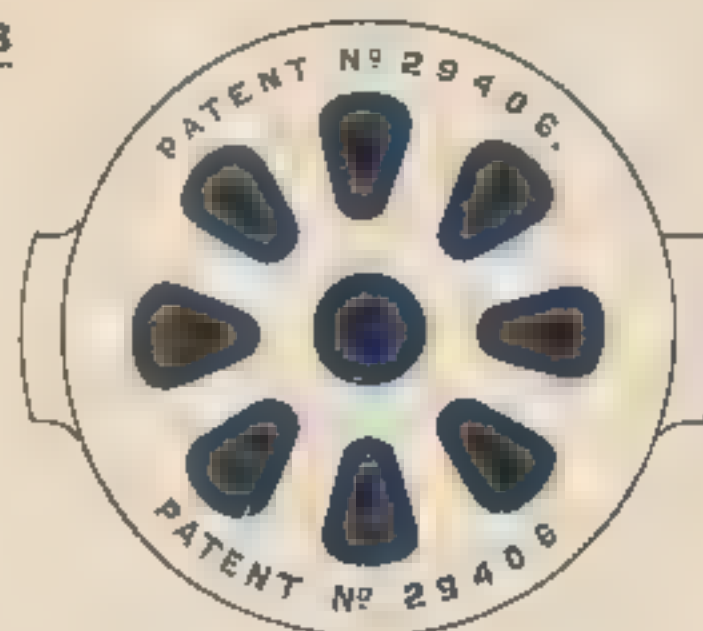
NOTE. Outlet of Trap may be turned in any desired direction to suit position or to remove the Socket of waste pipe from wall.



NOTES. Pipe B supplied in lengths varying from 3 to 7 ins.

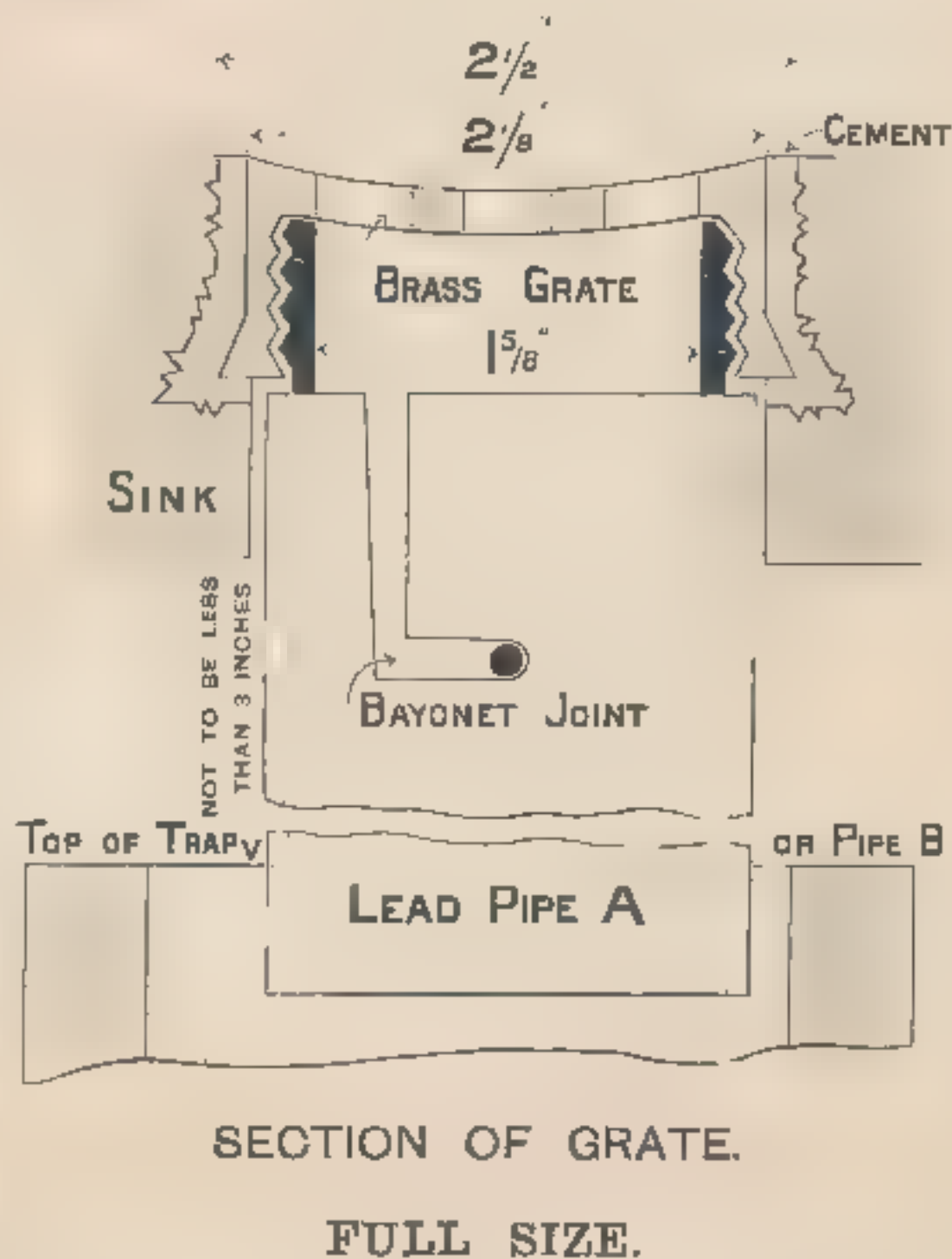
The distance between top of pipe B and underside of sink may vary from 3 to 4 ins. but the former is recommended.

**Fig. 3**



PLAN OF GRATE.—  
FULL SIZE.

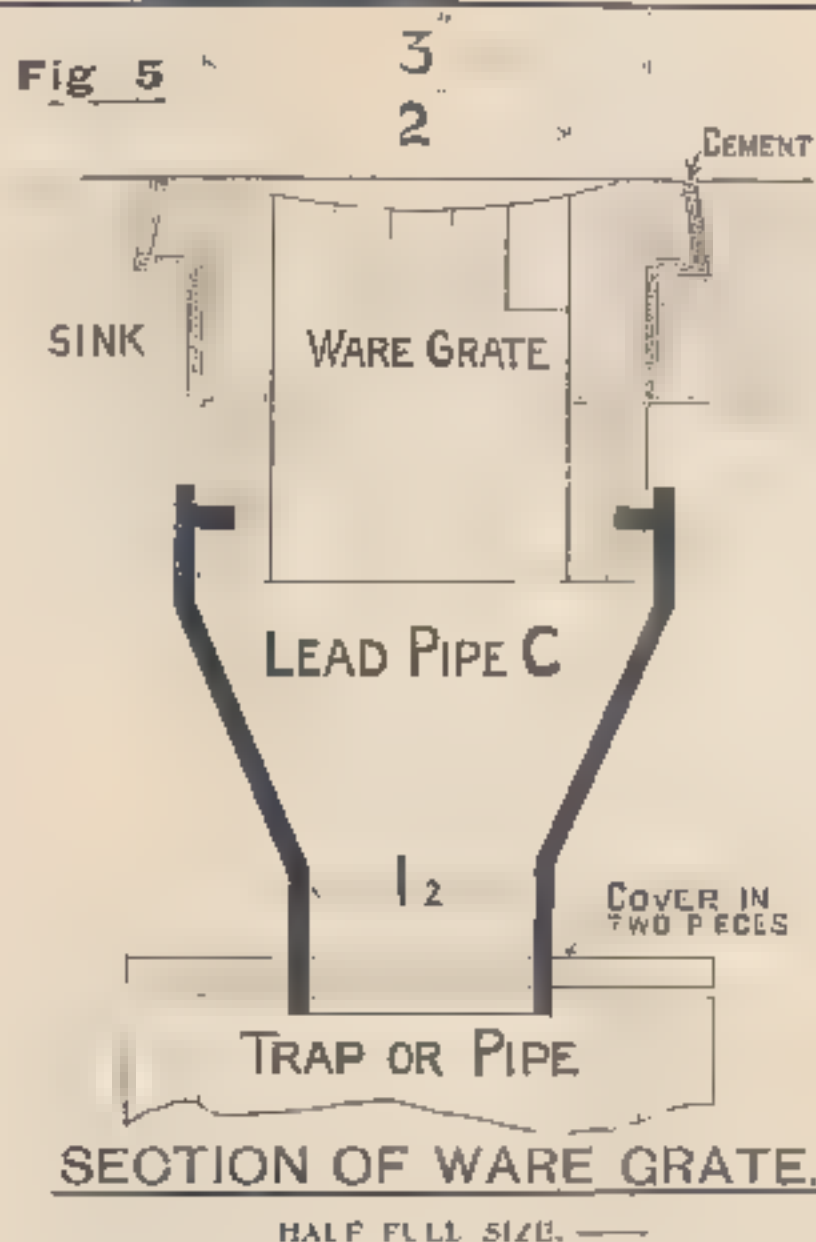
**Fig. 4**



**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

# SINK FITTINGS.

## SANITARY.



### — Description. —

The waste pipes are 2 inches internal diameter and made of highly-glazed enamelled ware, with air-tight "Stanford" joint to trap and pipe B, which are also of enamelled ware.

The outlet end of waste pipe is hooped with cast iron, for protection against breakage.

A brass or ware grate is firmly lewised into sink.

Pipe A is made in two parts, the upper is of brass and soldered to the grating, and is made to telescope into the bottom pipe, as shewn on Fig. 4. A grating in glazed ware with lead pipe C, as shewn on Fig. 5, is supplied instead of brass grate and pipe A, if preferred, and at the same price.

### — Advantages.

- 1 The Trap and waste pipe, being of glazed enamelled ware, are more durable than lead.

A fast grate, yet ready access to waste pipes for cleaning.  
Outlet end of waste pipe protected.

Waste pipes may be safely placed in position when wall is being built.

**NOTE.** When cleaning No. 1 remove pipe A and trap, then pass cleaner through waste pipe. When cleaning No. 2 remove pipe A only.

The waste pipe should be secured to the wall, but the trap left free, as it will be supported by the special socket, &c.

If an ordinary dishstone is used, the bottom of iron hoop at end of waste pipe should be set 2" above yard level, and if Duckett's No. 2 Channel Gully is used, fix bottom of hoop 2" below yard level.

The hoop can be removed and waste pipes readily cut shorter if required.

**IN ORDERING,** state whether fittings as shewn on Section marked No. 1 or No. 2 are required, also thickness of wall and depth of doorstep. It is also necessary to state whether an ordinary dishstone or Duckett's No. 2 Patent Gully will be used, and whether the trap will be fixed square, as shewn, or twisted so as to bring the socket waste pipe level with the wall. If these particulars are supplied correctly, fittings will be sent ready for fitting. Also state whether brass grate fittings or ware grate fittings are required.

### PRICES, on Rails at Burnley:

Fittings as shewn on Section marked No. 1	..	..	..	4	0	per set.
Do. do. do. No. 2	..	..	..	3	6	do.

**NOTE.** A sample set of Sink Fittings will be forwarded free to any address on receipt of cash. Duckett's Patent No. 2 Enamelled Channel Gully may be used in conjunction with these fittings, price 7/- each on rails.

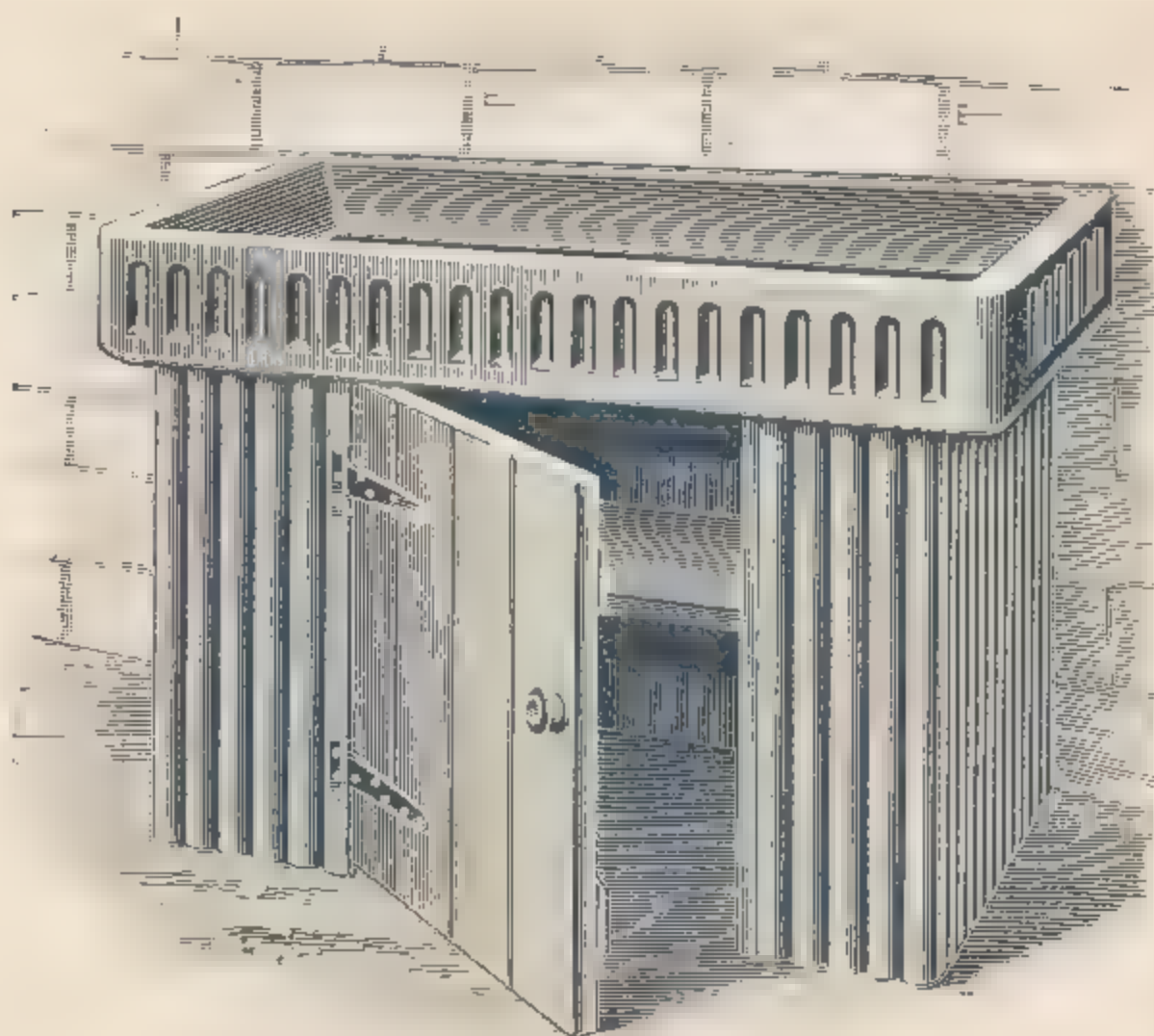
J. Duckett & Son, Ltd., supply Enamelled and Salt-Glazed Sinks, which are recommended as more sanitary than stone sinks. Illustrated Price List will be sent on application.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

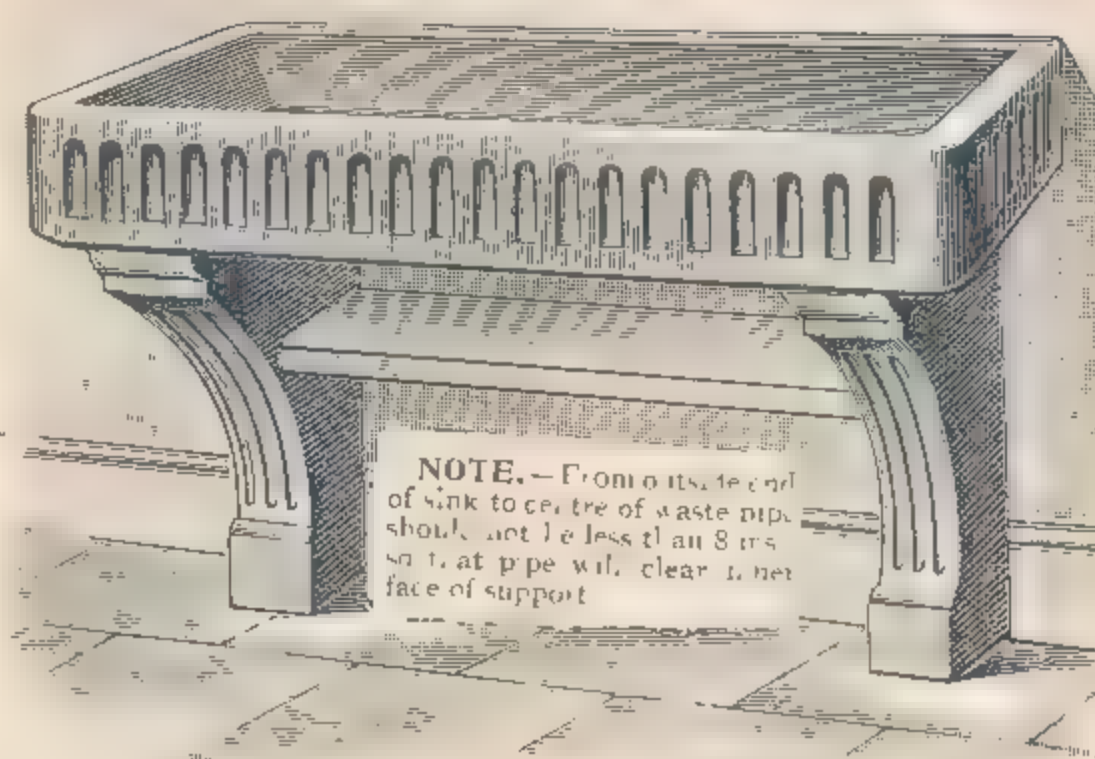


# DUCKETTS' PATENT SINK SUPPORTS

— NEAT, CLEANLY, AND SANITARY. —



PATTERN A.



PATTERN B.

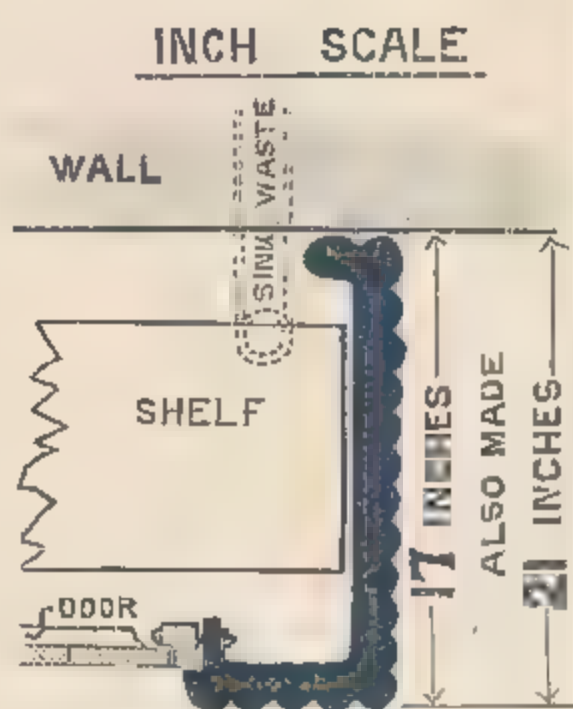
## — Description. —

THESE SUPPORTS are intended to be used instead of ordinary brick piers, and being made of highly-glazed ware, present a pleasing appearance. In pattern **A**, they are provided with rebated wood studs 2-in.  $\times$  1½-in. bolted firmly to the supports for hanging a door thereto. In pattern **B**, a preparation is formed in each pillar to receive a 9-in. shelf, and a cast iron dowel is supplied fixed to each pillar for securing it to the wall.

Stock sizes are:—Pattern **A**, No. 1—17-in.  $\times$  5½-in. and 22-in. high, and No. 2, 21-in.  $\times$  7-in. and 22-in. high, but either can be supplied higher if desired. Pattern **B**, No. 1—17-in.  $\times$  4-in. and 24-in. high, and No. 2—14-in.  $\times$  4-in. and 24-in. high.

### PRICES on Rails at Burnley for Salt-Glazed Ware:—

		s.	d.	Pais to a Ton.
Pattern A.	No. 1—17-in. $\times$ 5½-in. and 22-in. high, including rebated wood studs ... .. per pair	3	0	About 20
	No. 2—21-in. $\times$ 7-in. and 22-in. high, including rebated wood studs ... .. do.	3	6	About 17
	For each additional 2-in. in height .. .. do.	0	6	
Pattern B.	No. 1—17-in. $\times$ 4-in. and 24-in. high .. .. do.	4	0	About 26
	No. 2—14-in. $\times$ 4-in. and 24-in. high .. .. do.	5	0	About 31
Extra if in Amber Enamelled Ware, 20% on above prices.				



PATTERN A.

— PLAN. —

J. Duckett & Son, Ltd., supply Enamelled and Salt-Glazed Sinks. Illustrated Price List will be sent on application.

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# DUCKETTS'

PATENT

## Cure for Smoky Chimneys.

NEAT IN DESIGN.

VERY EFFECTIVE.



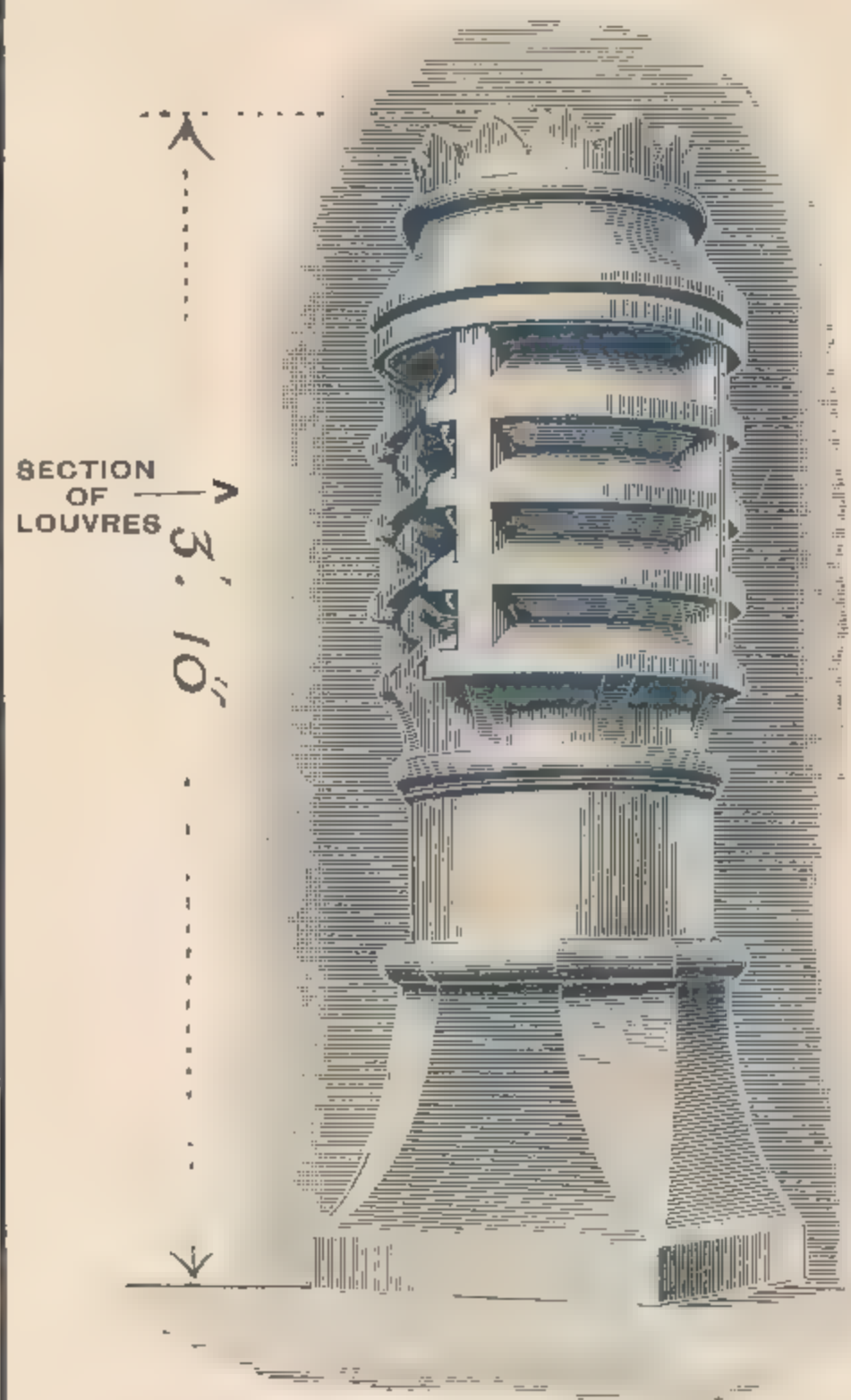
### Description.

This pot has a special louvred body circular in plan, with internal diameters of 13" at the widest part and 7" at the narrowest part of the smoke flue. The base is 15" square (outside measurement). The height is 3' 10," and the weight 120 lbs. It has been designed to protect down-draughts and consequent smoky chimneys, and the special louvres are so constructed that rain in wet weather cannot penetrate to the smoke flue.

### Advantages.

It is of superior principle and construction. It has no movable parts, is noiseless, allows of easy sweeping, is not liable to get out of order, and is handsome in appearance.

It has novel louvres so arranged as to deflect the wind and at the same time prevent the rain penetrating to the smoke flue, which would otherwise destroy the efficiency of the upward draught.



*Price : - - 18s. 0d. each.*

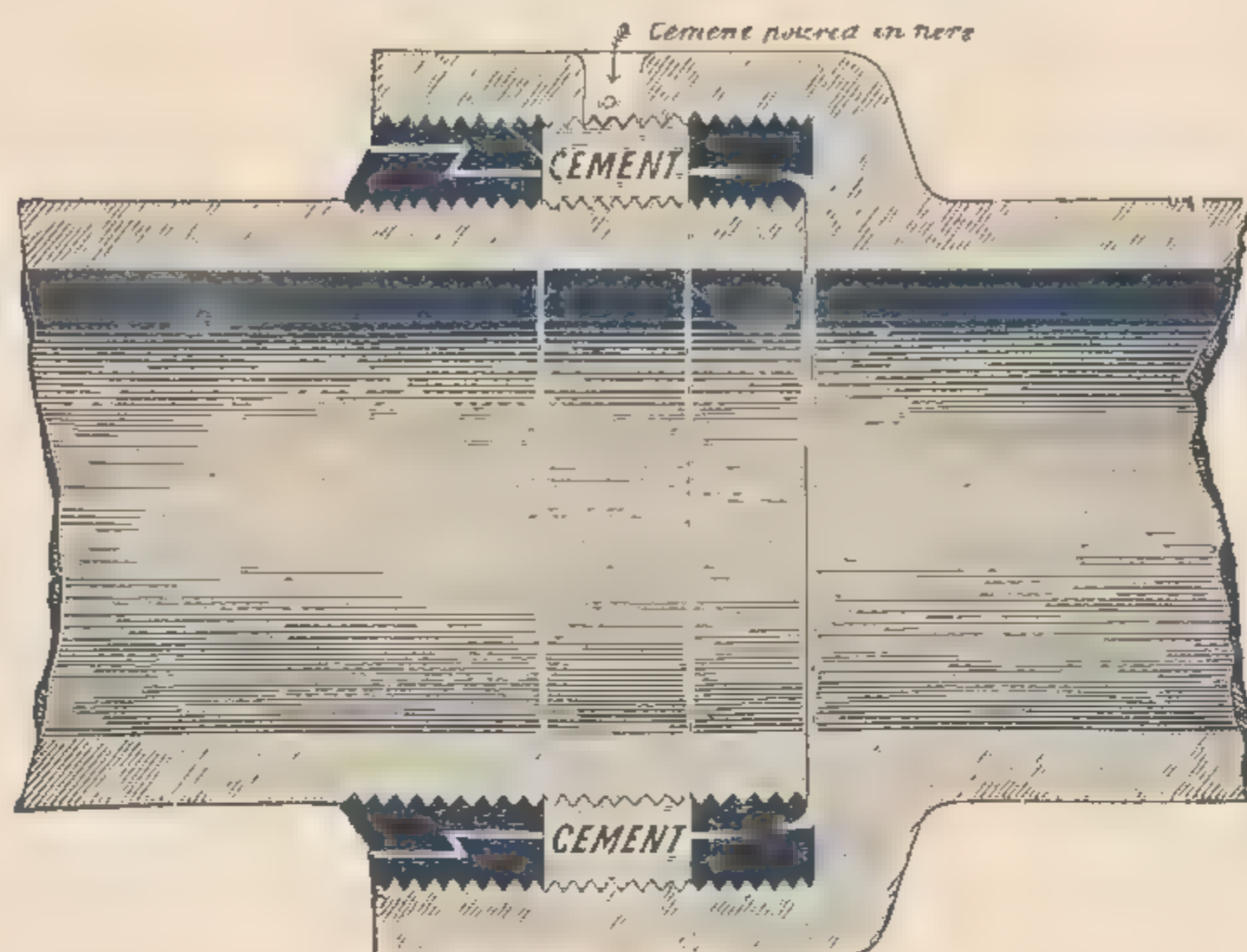
**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**



# — HASSALL'S —

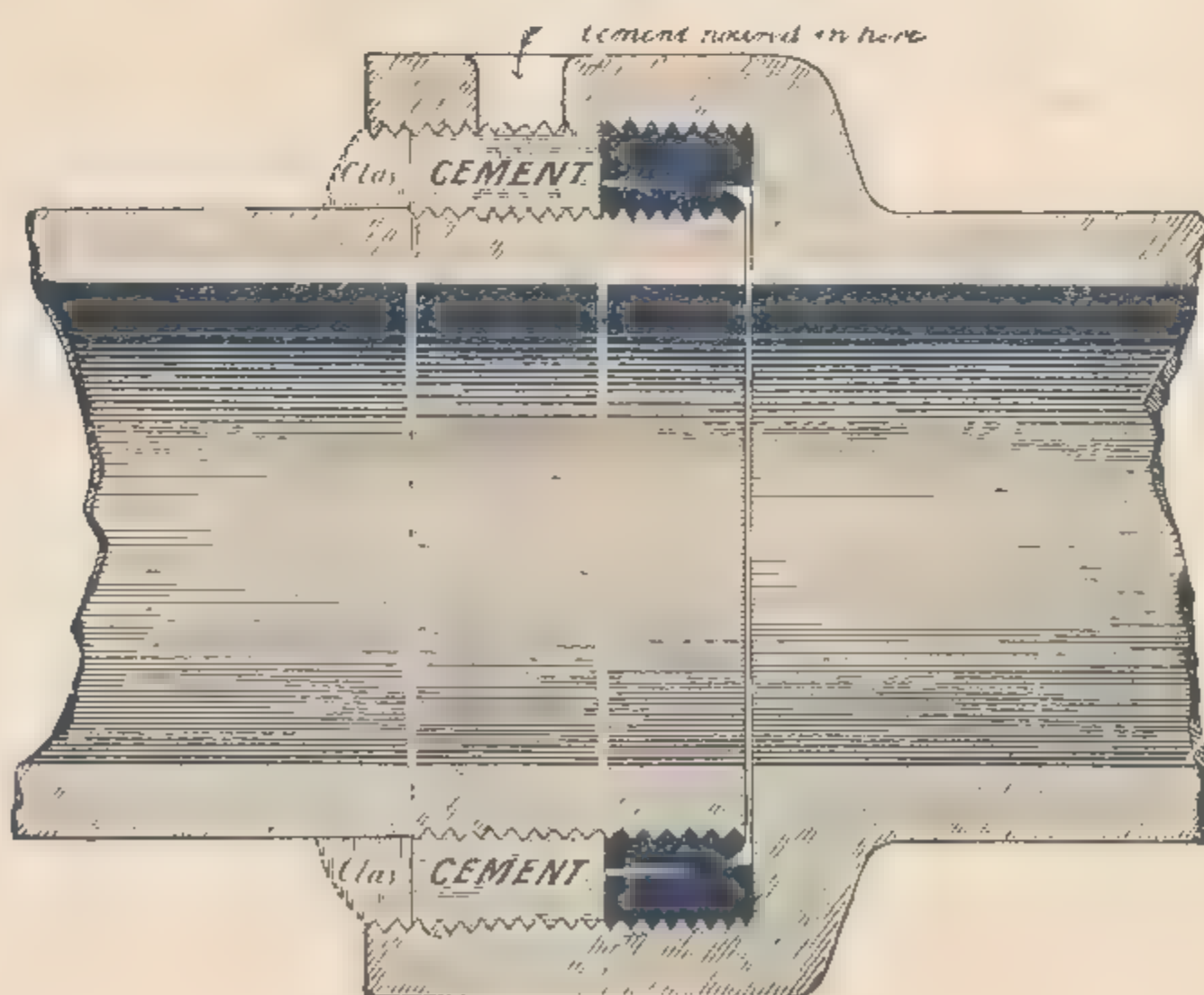
## Improved Patent Safety Pipe Joint

DOUBLE-LINED JOINT.



SECTION.

SINGLE-LINED JOINT.



SECTION.

This well-known Patent Joint has been specially designed for the purpose of enabling thoroughly water-tight sewers to be constructed.

It is made in two forms as shewn, viz.:—Double-lined and Single Joint.

The great advantages possessed by this Joint are so well known as to require no description here.

The Joint has been very largely used, and references can be given to eminent Sanitary Engineers who have used it.

Further particulars and prices may be had on application to

**J. Duckett & Son, Ltd.,**

**BURNLEY,**

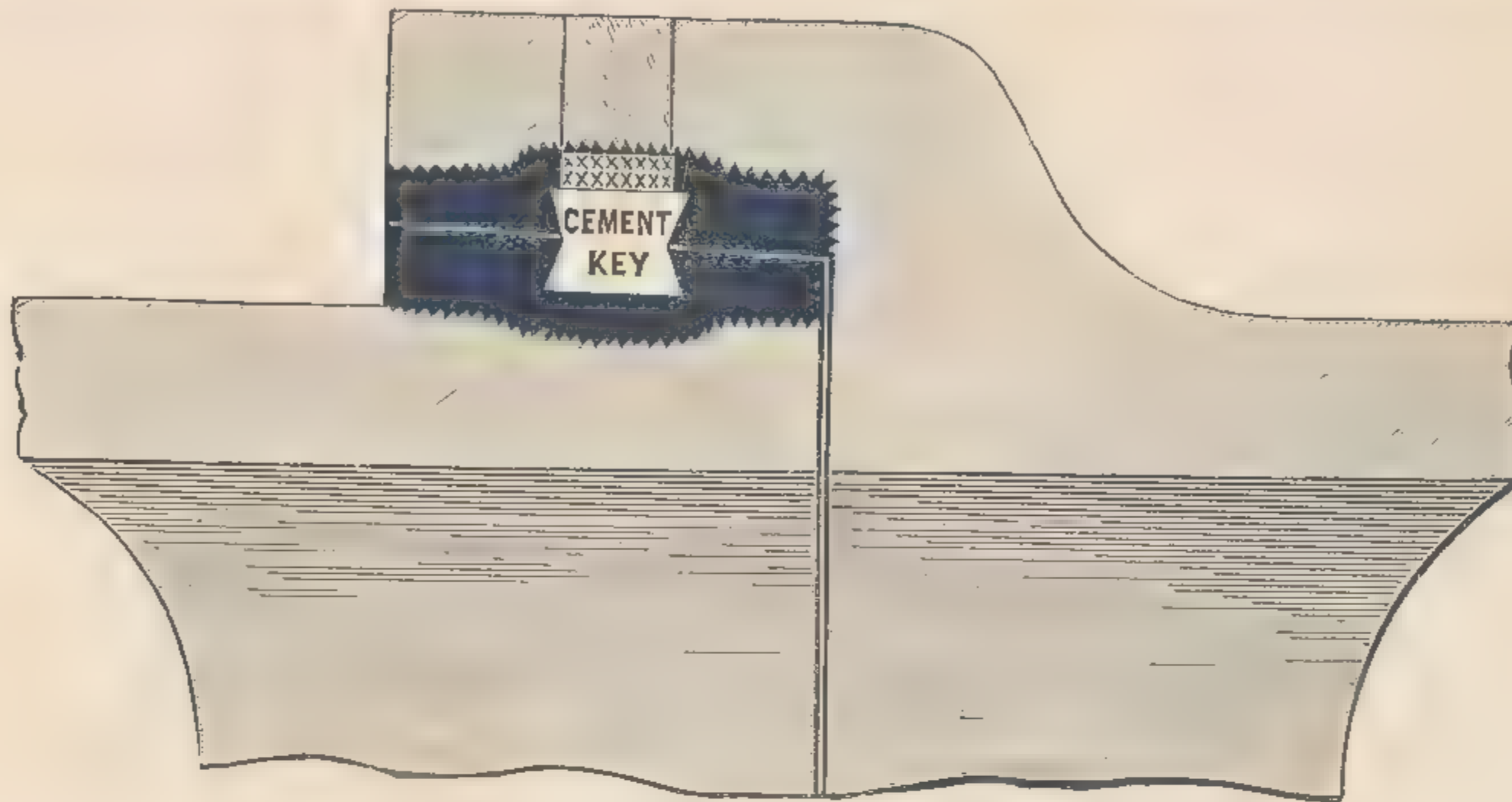
**LANCASHIRE,**

*Licenses and Manufacturers.*

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

# Button's Patent "Secure" Joint

## FOR SEWER PIPES.



SECTION OF JOINT

### — Description. —

This Patent Joint is admirably adapted for Sewers where watertight conditions and strength are of importance.

On the spigots and in the sockets of the pipes a bituminous material is cast by means of improved and patented apparatus. In these cast rings grooves are formed as shewn on drawing, so that when the spigot of the pipe is placed in the socket an annular groove is obtained into which cement is run, so as to seal the joint.

The cast rings have true bevelled surfaces which allow of easy fixing, and when the groove has been filled with cement a perfect key is made, which renders the joint not only strong, but absolutely watertight.

### — Advantages. —

- 1st. A RELIABLE and SECURE Watertight Joint is obtained.
- 2nd.—There is no possibility of the spigot drawing from the socket, as is sometimes the case with ordinary bituminous joints.
- 3rd.—The CONTINUOUS RINGS of bituminous material in socket and on spigot in combination with the ANNULAR KEY of cement ensure a watertight joint being made.
- 4th.—Pipes provided with the "Secure" Joint can be laid, and the joints properly made in sewer trenches when there is a continual stream of water running through.
- 5th. The "Secure" Joint being prepared by specially made and patented apparatus, a TRUE ALIGNMENT of pipes when laid in position is ensured.

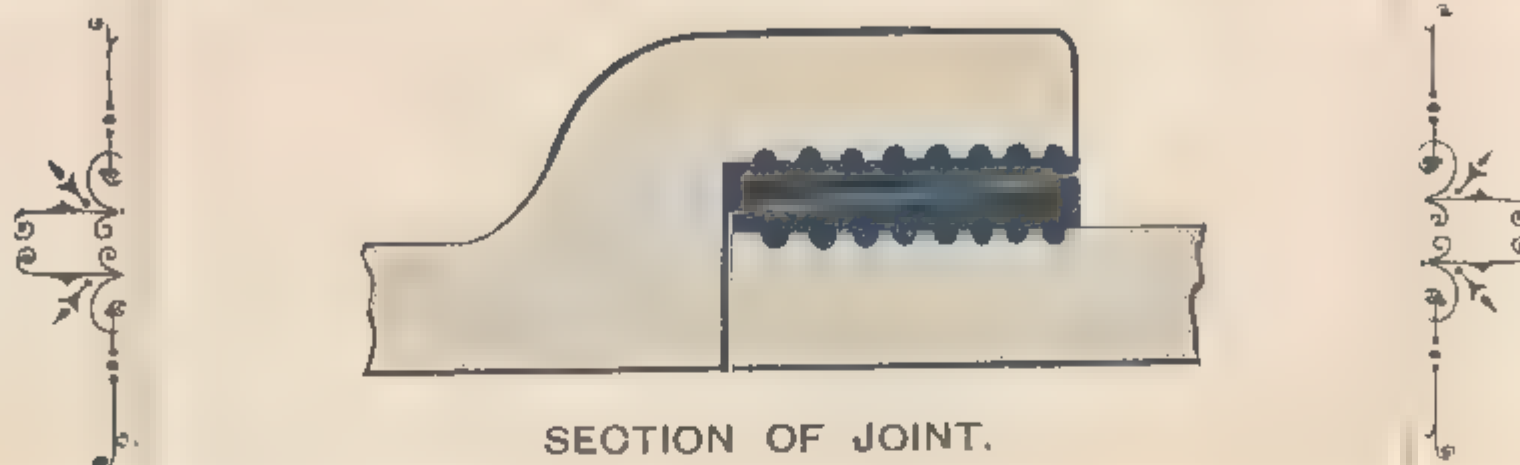
PRICES ON APPLICATION TO

**J. DUCKETT & SON, Ltd., Manufacturers of Sanitary Ware, Burnley, Lancashire.**



# — DUCKETTS' —

## "Stanford" Jointed Pipes.



### — DESCRIPTION. —

With these Pipes a water-tight joint is obtained by casting upon the spigot and in the socket of each pipe a durable material, by which the pipes when put together fit with mechanical accuracy and require no further jointing material.

The "Stanford" joint is acknowledged by Engineers and others to be one of the best joints for sewer pipes.

In laying these pipes, it is only necessary to insert the spigot of one pipe firmly into the socket of another previously laid, and the joint is complete. It is **suggested that before laying, the jointing material should be wiped with a greasy cloth.**

### — ADVANTAGES. —

No skilled labour required in laying.

No cement or other jointing material needed, therefore nothing to wash out.

The Pipes can at any time be taken up and re-laid without injury to the jointing material.

If desired, the joints can be readily tested by water before the pipes are permanently laid.

The joints are so made that it is impossible for the jointing material to project beyond the inside of the pipe.

### — PRICES ON APPLICATION. —

**J. DUCKETT & SON, Ltd.,** Manufacturers of Sanitary Ware, **Burnley, Lancashire.**

# DUCKETTS' VASES, &c.

In Amber-Enamelled or Unglazed Ware, &c.



No. 1.



No. 2.



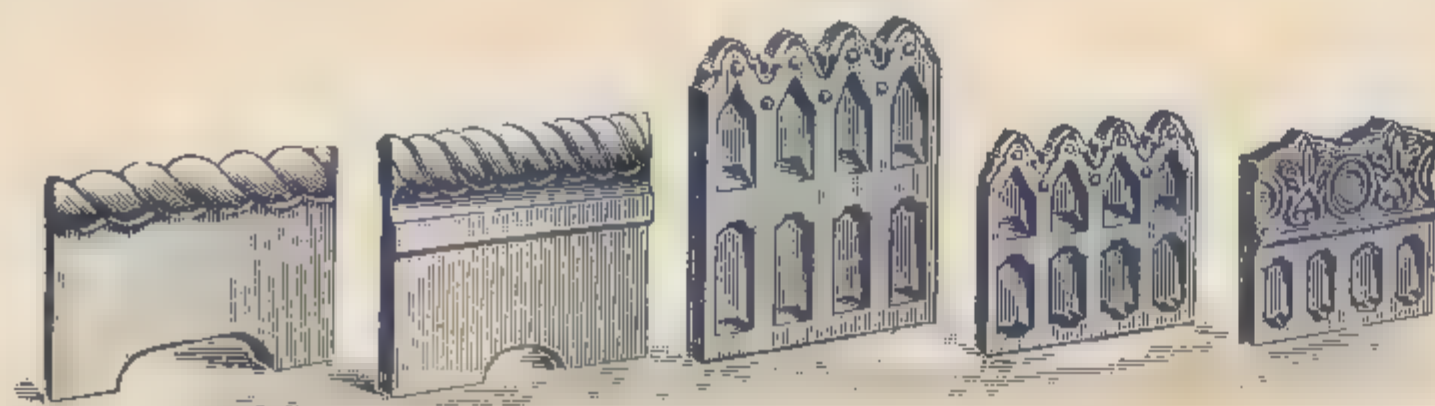
No. 3.

—PRICES at Works, Complete.—

	In Amber Ware.			In Salt or Unglazed Ware.		
	£	s.	d.	£	s.	d.
Vase & Pedestal No. 1...	2	5	0	1	15	0
Do. No. 2...	17	6		12	6	
Vase No. 3.....	10	6		7	6	

NOTE.—If Vases only are required, prices are two-thirds of Nos. 1 and 2.

## Garden Margin Tiles.



No. 1.

No. 5.

No. 6.

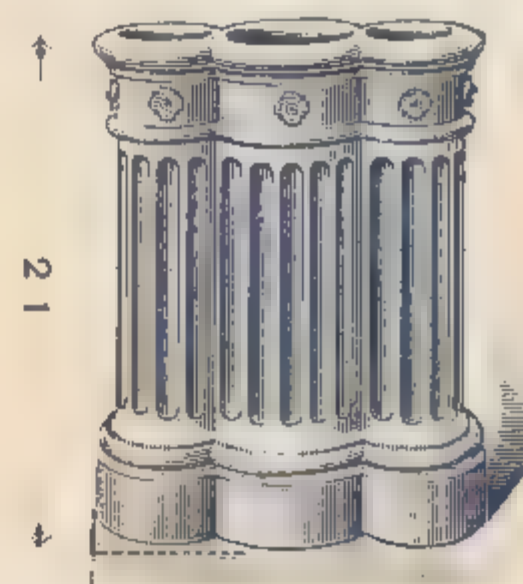
No. 3.

No. 7.

—PRICES at Works, in Salt-Glazed Ware.—

Patterns No. 1, 5, 3 and 7—8d. per yard Pattern No. 6 —10d. per yard.

## Umbrella Stand.

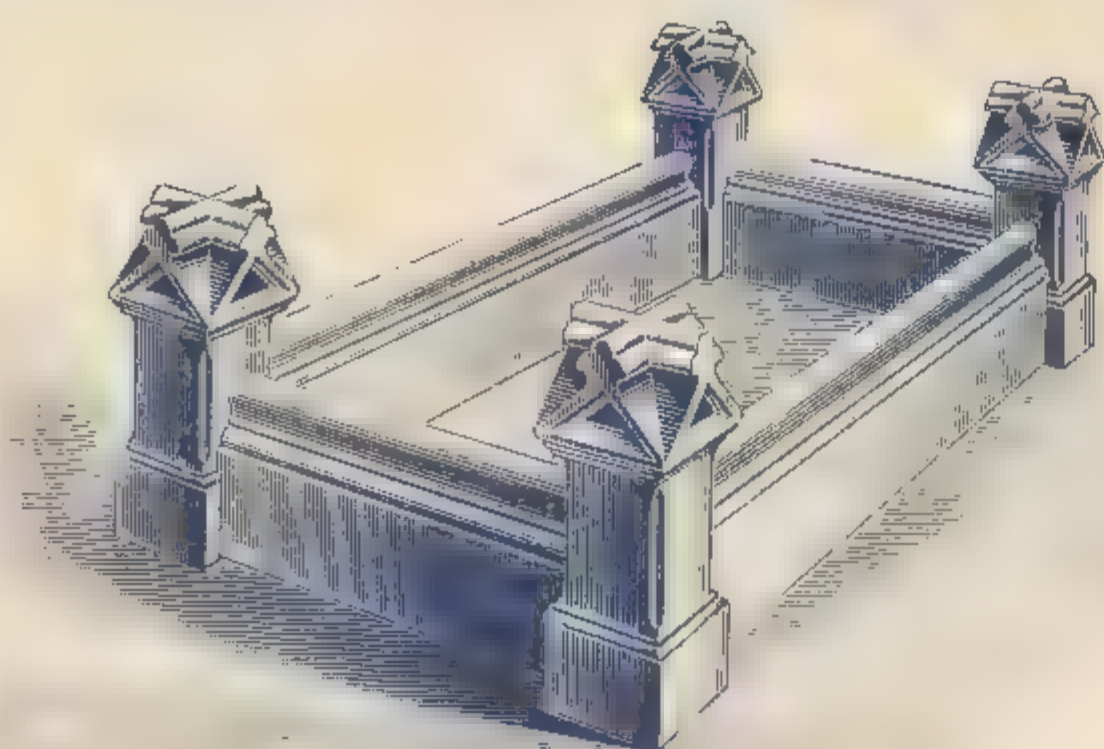


—PRICES at Works.—

Unglazed, 12 6 each.

In Amber Ware, 17 6 each.

## Grave Margins.



These Margins are supplied in Amber-Enamelled Ware only.

—PRICES at Works, per Set.—

	£	s.	d.
Six Pillars, with Margins ...	2	10	0
Four Pillars, with Margins, as illustrated.....	2	2	0

Cheaper Designs can be supplied, if required.

Particulars on application.

REGISTERED DESIGN No. 366,384.

J. DUCKETT & SON, Ltd., Manufacturers of Sanitary Ware, BURNLEY, Lancashire.



DOUGLASS, VASES, & CO.

PRINTED AT WORKS, COMPLETE.

[illegible]

LABYRINTH

PRICES of Works.

[illegible]

978 019 937541 4

These vaccines are applied in Ambros-  
timinated Water only.

—PRICES at Works. per Set.

Chaperon Design can be supplied, if required.

# **SANITARY INSTITUTE OF GREAT BRITAIN.**

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**Southampton Exhibition, 1899.**

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THE JUDGES AT THE ABOVE EXHIBITION AWARDED TO US

## **4 BRONZE MEDALS**

FOR THE FOLLOWING PATENTED SANITARY SPECIALITIES:

1. "The Rapid" Slop-Water Closet.
2. "The Clencher" Pedestal Wash-Down Closet.
3. Isolated Closets in Ranges.
4. Automatic Flushing Tank.

Full particulars of these Specialities sent on application.

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### **J. DUCKETT & SON, Ltd.,**

**SANITARY WARE WORKS,**

**BURNLEY, Lancashire.**



# STATUTES IN FORCE

OF GREAT BRITAIN

AND IRELAND

IN CONNECTION WITH THE

REVENUE

## A SHORT HISTORY OF THE

REVENUE

OF GREAT BRITAIN

AND IRELAND

FROM 1789 TO 1845

BY

JOHN R. SEYMOUR

OF THE

REVENUE

DEPARTMENT

LONDON

SINK  
PIPE



# DUCKETT'S "1899" SELF-CLEANSING CHANNEL GULLEY

(PATENTED.)

This Gulley has a long narrow deep Channel and prevents splashing, even when sink waste is 3 inches diameter, or even when sink is at a considerable height above Gulley.

It will be observed from diagram that a cover is formed over part of the Channel which acts as a shield. Underneath it a depression about  $\frac{3}{4}$  inch deep is formed in the Channel to act as a cushion.

An opening in the cover is provided to enable a workman to make a good connection and to admit of ventilation to foot of waste-pipe.

DUCKETT'S "1893" PATENT CHANNEL GULLEY may be used when sink waste does not exceed  $1\frac{1}{2}$  inches diameter, or when sink is not elevated as above mentioned.

In ordering state whether "1893" or "1899" pattern is required. Prices are alike.

J. DUCKETT & SON, Ltd., Manufacturers of Sanitary Ware, BURNLEY, LANCASHIRE.



THIS  
SIDE

STATION

10001

STATION

STATION

STATION

(STATION)

STATION

J. DICKEL & SONS, LTD.

STATION

STATION

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STATION

STATION

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STATION

STATION

STATION

STATION

STATION

STATION

STATION

STATION

STATION

2 GALLS

$2\frac{1}{2}$  GALLS

3 GALLS

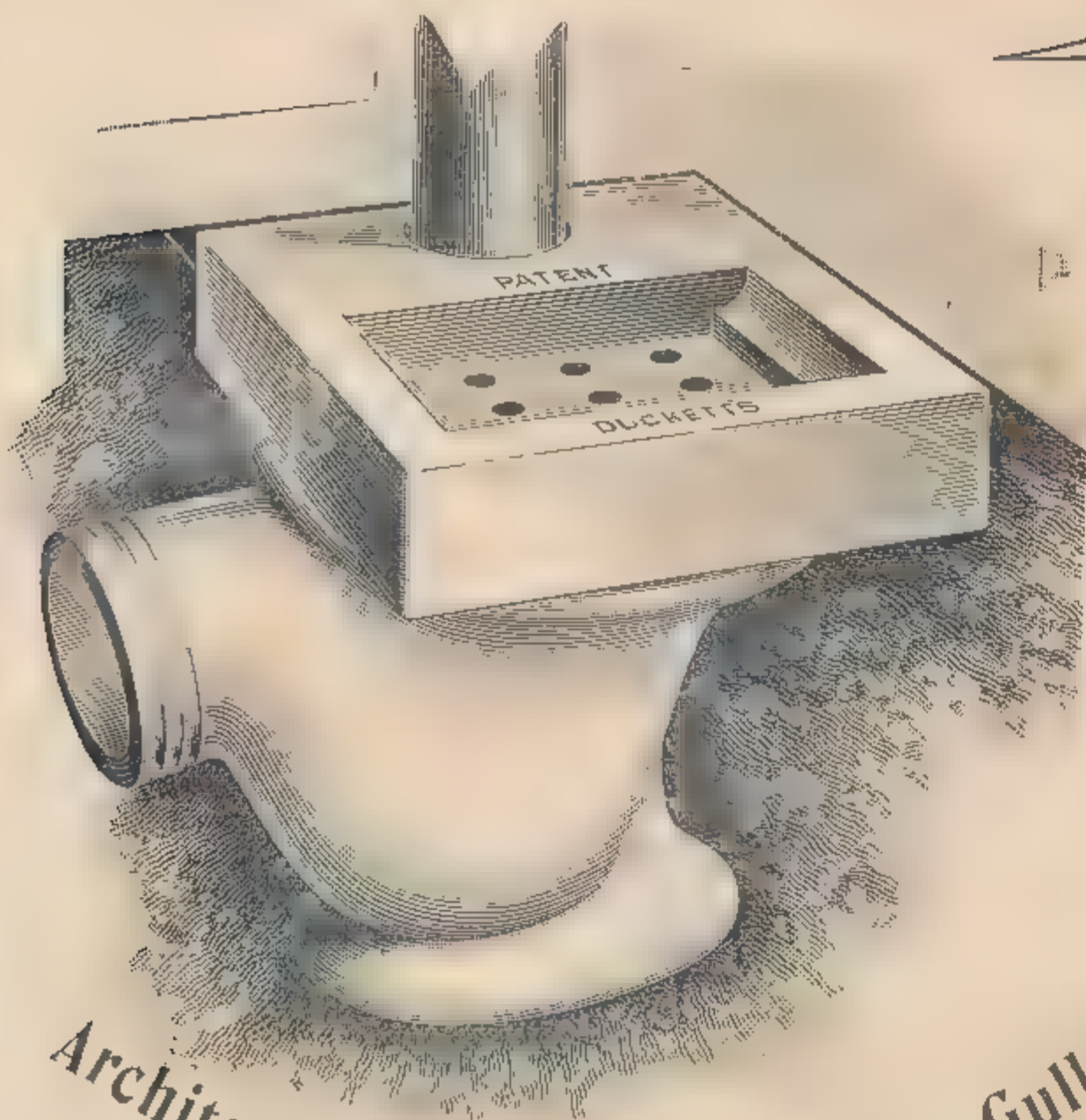
22s. 0d.

23s. 6d.

25s. 0d.







# DUCKETTS' Patent Rain-Water Gulley.

**NO MORE WET FOUNDATIONS.**

In consequence of the serious defects in the old-fashioned rain-water gulleys, J. D. & S. Ltd. have invented this gulley which is free from objectionable features. It is made of well glazed stoneware and of such form as to give best results.

**Note.** Sufficient play provided to allow bottom length of rain-water pipe being easily socketted into length above.

Architects should specify this Gulley.

## Advantages:

1. Prevents Splashing.
2. Foundations kept Dry.
3. Small Water Area and Direct Flush, therefore Self-Cleansing.
4. No Shoe required.
5. No Bend required.
6. Suitable either for square or round pipes.
7. Outlet will turn in any direction.

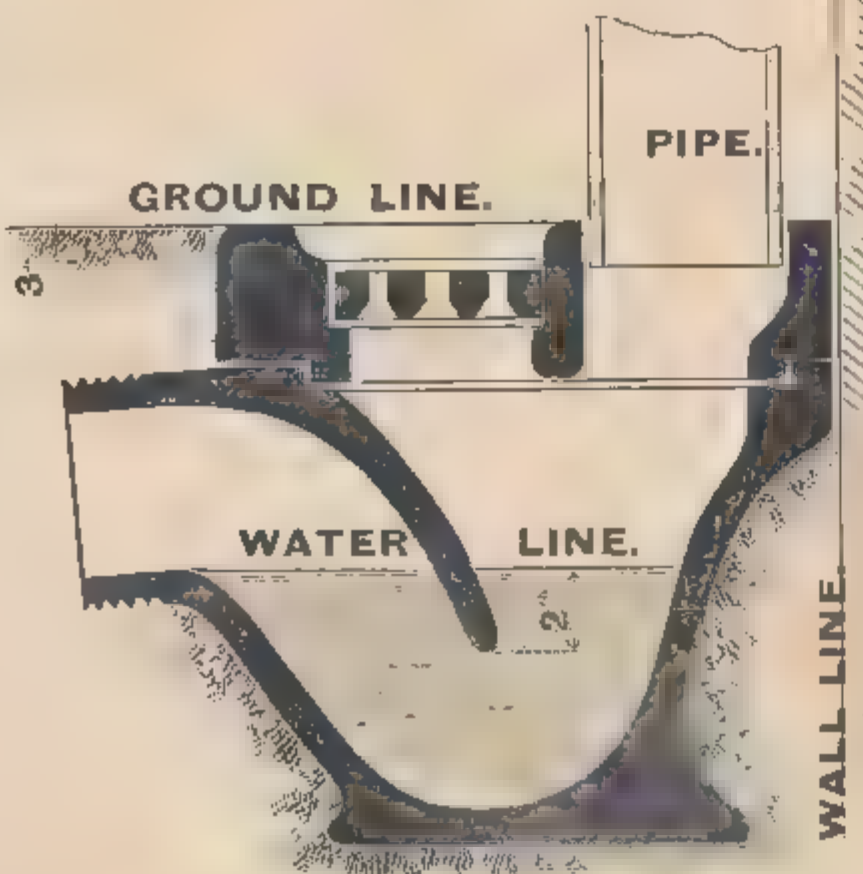
## Stock Sizes of openings for Down-Pipes:

- No. 1.—RECTANGULAR.—3ins. x 2ins., 4ins. x 3ins., and 5ins. x 3½ins.  
No. 2.—CIRCULAR.—2½ins., 3ins., and 4ins. diameter. Other sizes to order.

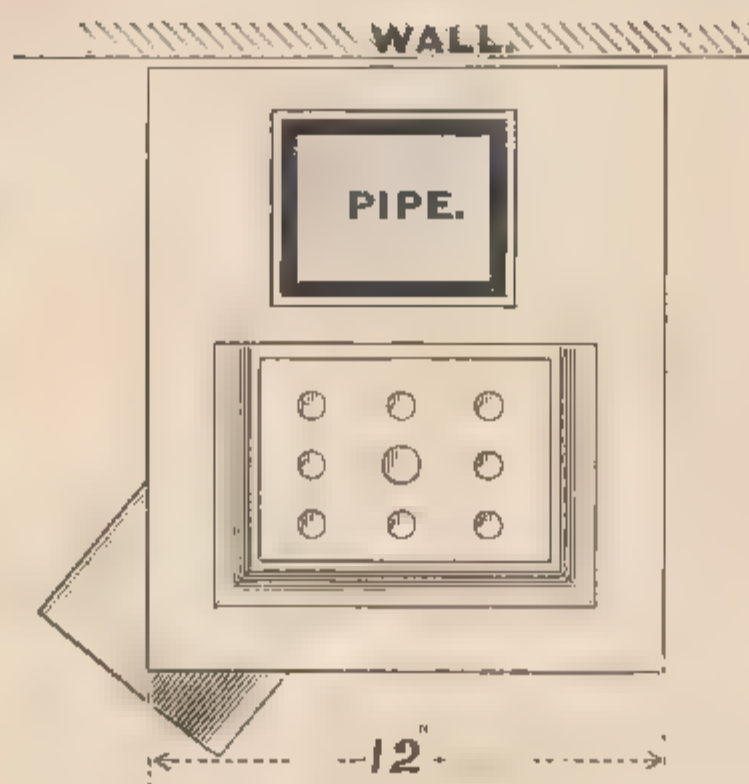
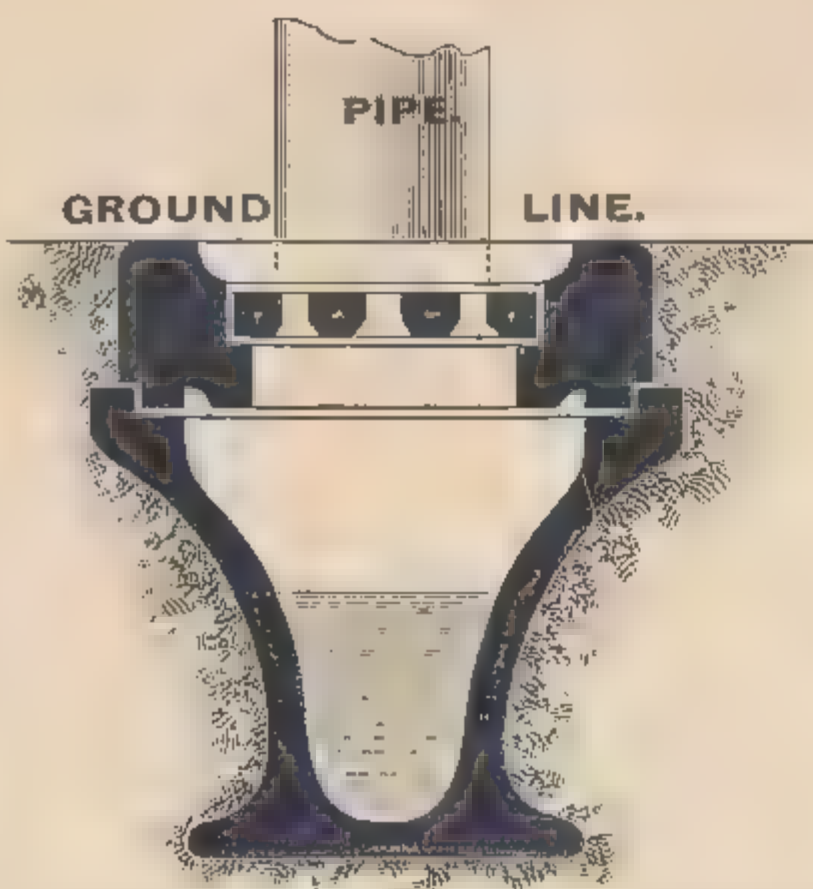
## Prices, on Rails at Burnley:

	s.	d.	
Complete Gulley, with ware grate inch thick .....	5	0	each.
Extra if fitted with Ducketts' Patent Hinged Iron Grate	1	0	"
" " " " Galvanized Grate	2	0	"

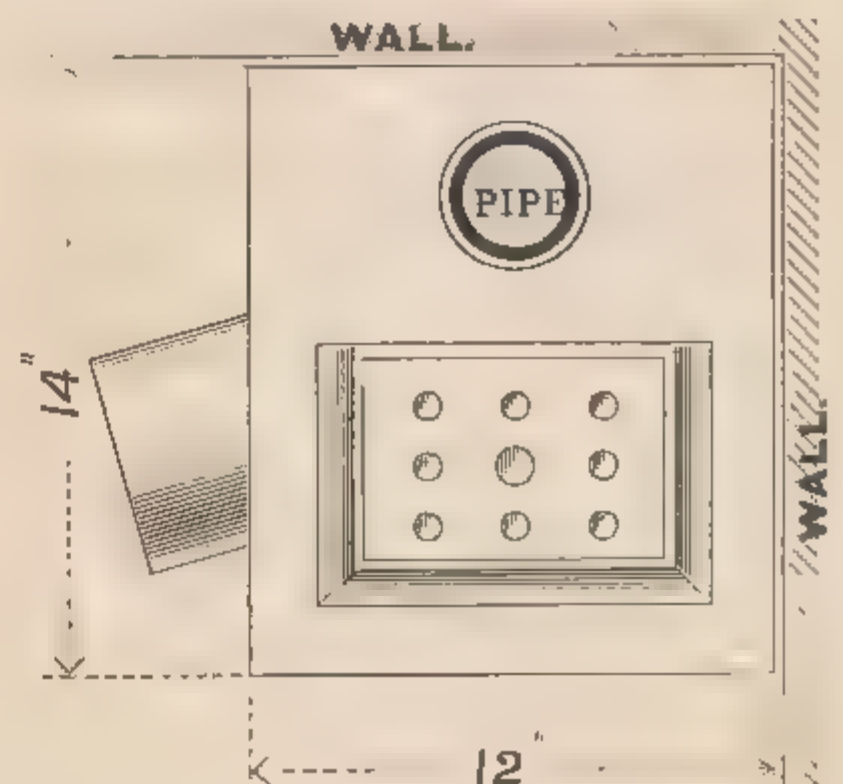
TRADE TERMS ON APPLICATION.



**SECTIONS.**



**PLAN No. 1.**



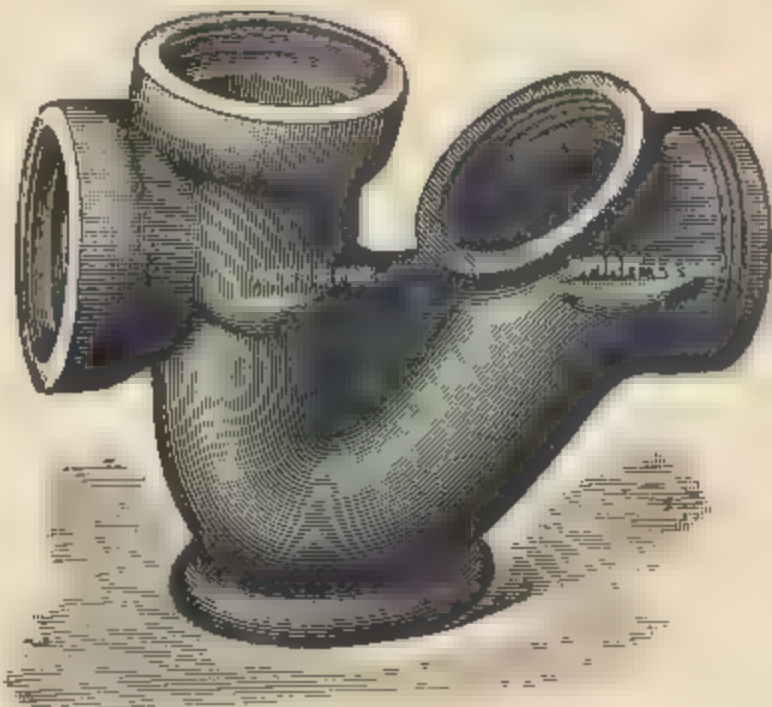
**PLAN No. 2.**

J. DUCKETT & SON, LTD., Manufacturers of Sanitary Ware, BURNLEY, Lancashire.





# DUCKETTS' SANITARY SPECIALITIES



Registered Design No. 357023.

## Disconnecting Trap with Rests for Spirit Level

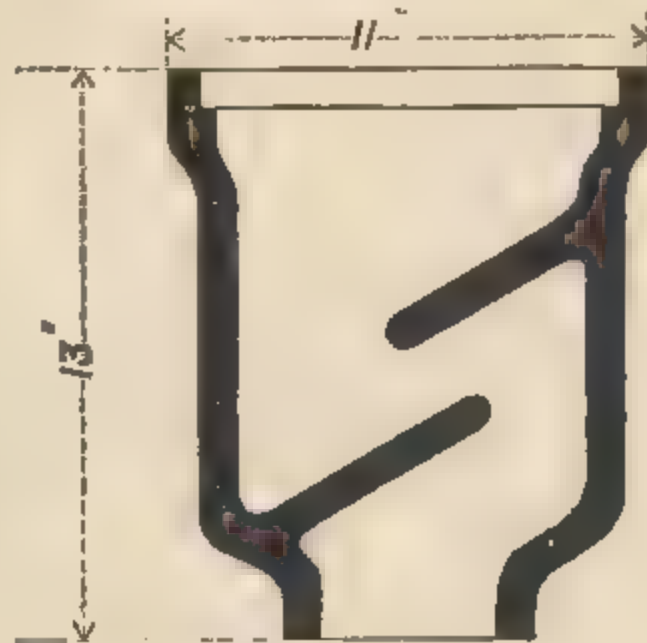
This Trap has been designed with a view to increased efficiency and simplicity in the disconnection of house drains. The drop allowed between inlet and outlet is 2 inches. Rests for spirit level are formed on the outside of the Trap as shewn, whereby a workman can easily so fix the Trap as to ensure the proper fall and seal. The hand-hole is fitted with an airtight stopper when required.

### ADVANTAGES.

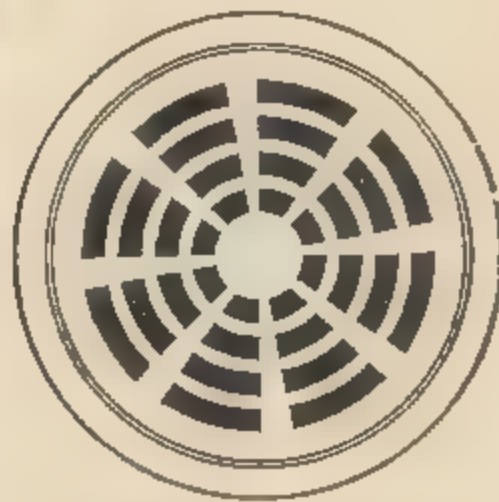
- 1.—Proper Fall and Seal ensured.
- 2.—Easily tested when fixed.
- 3.—A safe Disconnector.

### PRICES on Rails at Burnley.

4 inch Trap, as illustrated ...	6/-	each.
6 inch do. do. ...	8/6	do.
Airtight Access Lid.....	6d.	do.



SECTION



PLAN OF TOP

## Shaft Top for Drains.

Registered Design No. 344065.

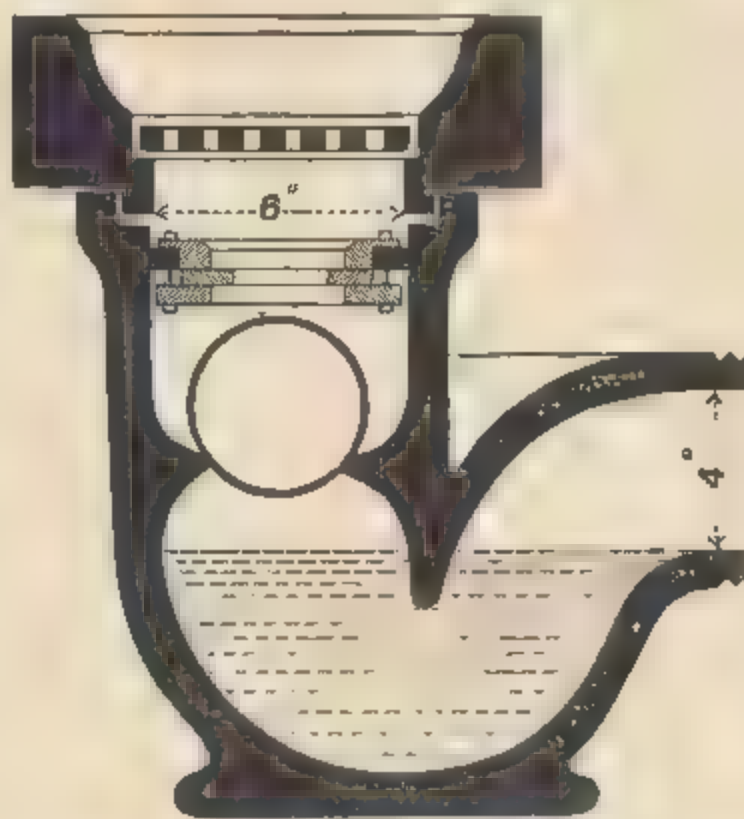
This appliance is made in salt-glazed ware, with strong diaphragms as shewn, and provided with iron grating, fitted with locking arrangement to prevent easy removal by mischievous persons or children. It is admirably adapted for a surface finish to drain shaft, and provides excellent means for an air inlet to the drain without the drawbacks common to other arrangements.

### ADVANTAGES

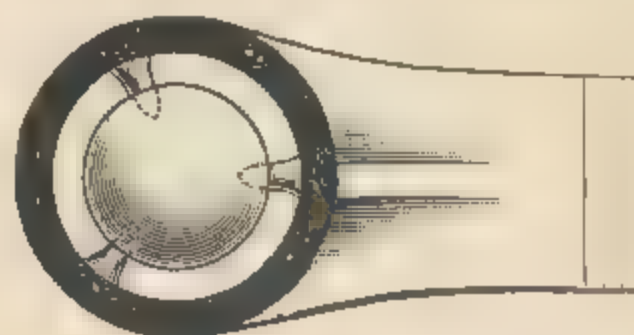
- 1.—Grit and rubbish passed through grate cannot fall into drain.
- 2.—A good inlet for ventilation of house drain.

### PRICES on Rails at Burnley.

Shaft Top and Iron Grate .....	9 6	each.
Extra if Grate is galvanised .....	1/-	do.



SECTION.



PLAN OF TRAP.

## Anti-Flooding Trap

Registered Design No. 367217.

This Trap, as its name implies, is efficient for preventing flooding of basements, etc., by back pressure from drains. When water backs up from drain, the india-rubber ball rises and comes in contact with a well-secured india-rubber ring, whereby a watertight joint is made.

### PRICES on Rails at Burnley.

6" x 4" Trap, with India-rubber Ball and India-rubber Joint .....	15s. 0d.	each.
Extra for 12" x 12" Dish and Hinged Iron Grate .....	1s. 6d.	
Extra if Grate is Galvanised .....	9d.	

J. DUCKETT & SON, Ltd., Manufacturers of Sanitary Ware, BURNLEY, Lancashire.



PLAN OF TRAP.

PRICES on Rails at Burley.

12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.

The trap is the most important part of the drainage system, and it is essential that it should be of the best quality and of the most reliable construction. The trap is the part of the drainage system which is most liable to clogging, and it is essential that it should be of the best quality and of the most reliable construction.

REGISTERED DESIGN NO. 207417

PRICES on Rails at Burley.

12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.

ADVANTAGES.

1. It is the most reliable and most durable of all traps.
2. It is the most reliable and most durable of all traps.
3. It is the most reliable and most durable of all traps.

The trap is the most important part of the drainage system, and it is essential that it should be of the best quality and of the most reliable construction. The trap is the part of the drainage system which is most liable to clogging, and it is essential that it should be of the best quality and of the most reliable construction.

REGISTERED DESIGN NO. 204055

## Shut Top for Drains.

PRICES on Rails at Burley.

12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.
12 in. x 12 in. with 12 in. flange	18s. 0d.

The trap is the most important part of the drainage system, and it is essential that it should be of the best quality and of the most reliable construction. The trap is the part of the drainage system which is most liable to clogging, and it is essential that it should be of the best quality and of the most reliable construction.

ADVANTAGES.

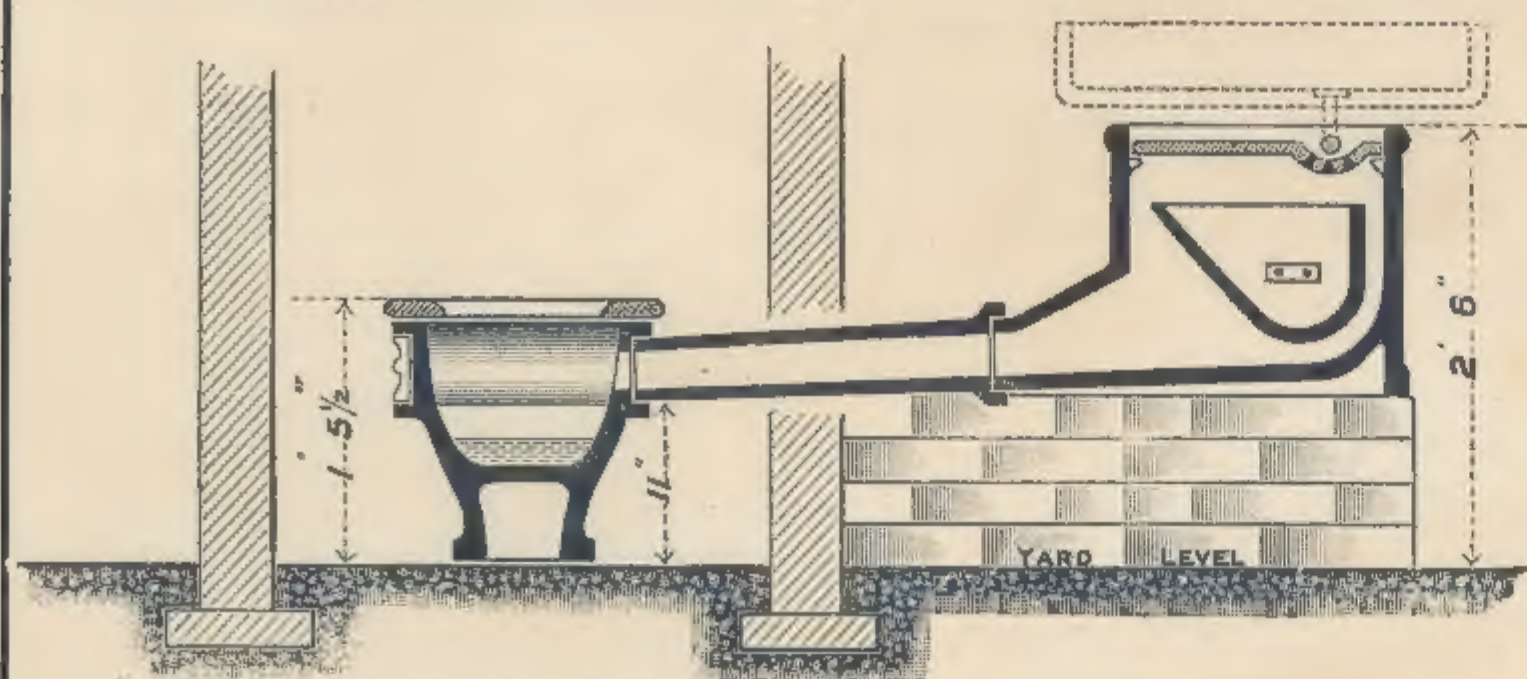
## Blackett's Sanitary Specialties



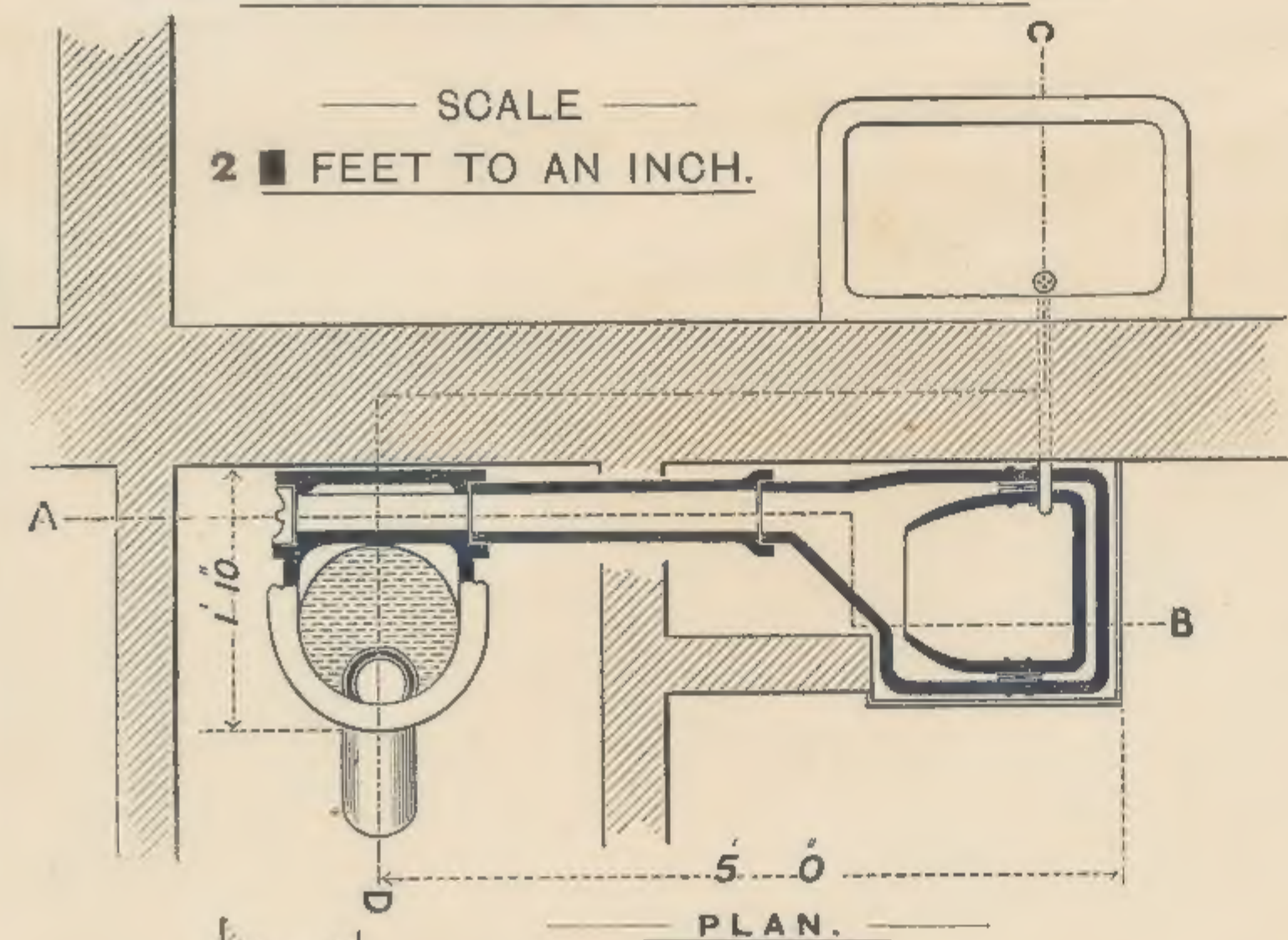
# DUCKETTS' PATENT "CLIMAX"

## SLOP-WATER CLOSET.

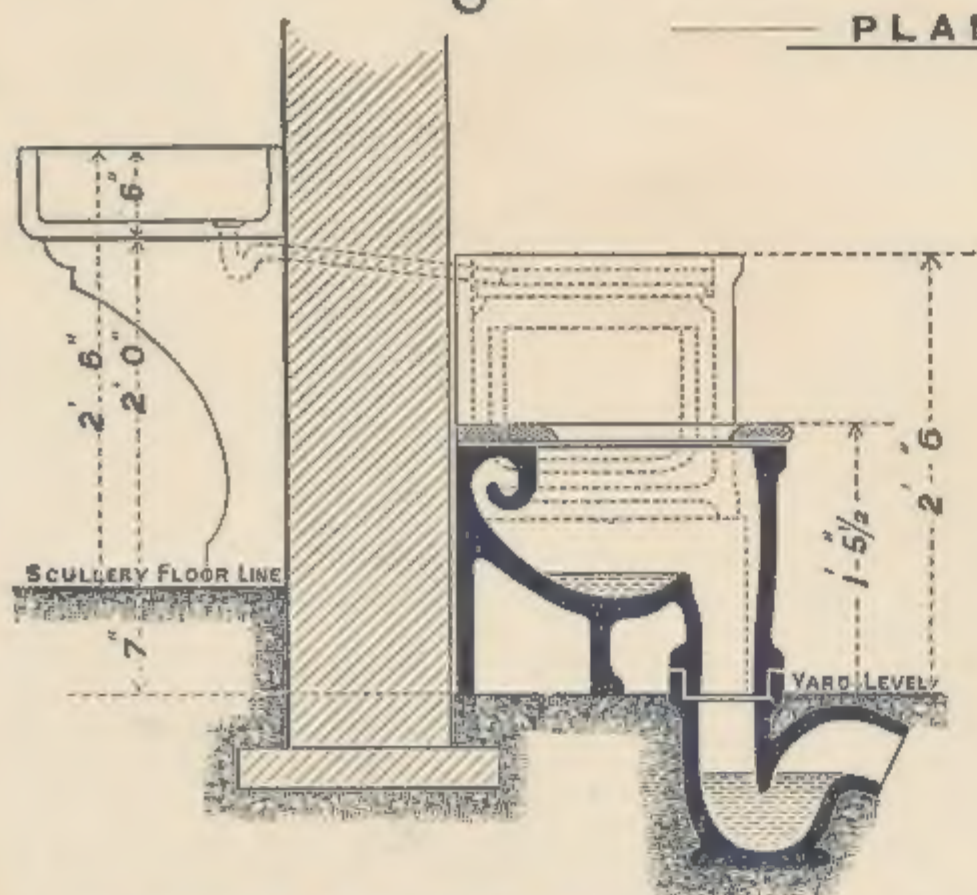
SANITARY. EFFICIENT. ECONOMICAL. ACCESSIBLE.



LONGITUDINAL SECTION ON LINE A-B.



PLAN.



CROSS SECTION ON LINE C.D.

**THIS** up-to-date Slop-Water Closet consists of a strong Pedestal Basin and Automatic Flushing Apparatus.

The **Automatic Tipper** is of 3 gallons capacity, fitted with latest improvements, in a strong container covered with an iron dished grate to receive discharge from sink waste pipe. A 3 inch pipe connects the outlet from flushing apparatus with inlet to pedestal, as shown on drawing.

The **Pedestal** is prepared to receive flush from either left or right hand, and has a standing water area of 110 square inches.

The **Flushing Inlet and Conduit** are specially formed to give the best results. A stopper is provided to block up end not required.

The **Outlet** of closet is at the front 4 inches diameter, with a 4 inch trap which can be turned in any direction to meet drain.

### Advantages :

- 1.—Exceptionally strong flush.
- 2.—No fouling surface without flush.
- 3.—All parts accessible.
- 4.—No deep drains required.
- 5.—Easily fixed.
- 6.—No plumber's work required.
- 7.—Cheap and durable.

**INSTRUCTIONS FOR FIXING.**—The various parts should be set up loosely before being permanently fixed, so as to ensure proper fall between sink waste and closet.

The connecting pipe between flushing apparatus and pedestal may be fixed level if step between scullery floor and yard is less than 7 inches.

All joints must be made water-tight with cement.

### PRICES on rails at Burnley :—

	£	s.	d.
Closet, including Pedestal Basin, Stopper, Trap, Automatic Tipper and Container in Salt-glazed Ware, with Iron perforated Cover for Container	1	16	0
Strong plain hinged seat	0	6	6
Optional Extras.			
If seat is painted and varnished	0	1	0
If basin is in amber enamelled ware inside and out	0	4	0
If basin is amber enamelled outside and white inside	0	7	6

**IN ORDERING** state whether flushing apparatus will be on left hand as shewn or on opposite hand.

**J. DUCKETT & SON, L<sup>TD</sup> MANUFACTURERS OF SANITARY WARE, BURNLEY.**



# DUCKETT'S PATENT "CLIMAX" SLOP-WATER CLOSET.

SANITARY. EFFICIENT. ECONOMICAL. ACCESSIBLE.

THIS up-to-date Slop-Water Closet consists of a strong Pedestal Basin and Automatic Flushing Apparatus.

The Automatic Tipper is of 8 gallons capacity, fitted with latest improvements, in a strong container covered with an iron dish to receive discharge from sink waste pipe. A 3 inch pipe connects the outlet from flushing apparatus with inlet to pedestal, as shown on drawing.

The Pedestal is prepared to receive flush from either left or right hand, and has a standing water area of 110 square inches.

The Flushing Inlet and Conduit are specially formed to give the best results. A stopper is provided to block up and not required.

The Outlet of closet is at the front 4 inches diameter, with a 4 inch trap which can be turned in any direction to meet drain.

## Advantages:

- 1.—Exceptionally strong flush.
- 2.—No fouling surface without flush.
- 3.—All parts accessible.
- 4.—No deep drains required.
- 5.—Easily fixed.
- 6.—No plumber's work required.
- 7.—Cheap and durable.

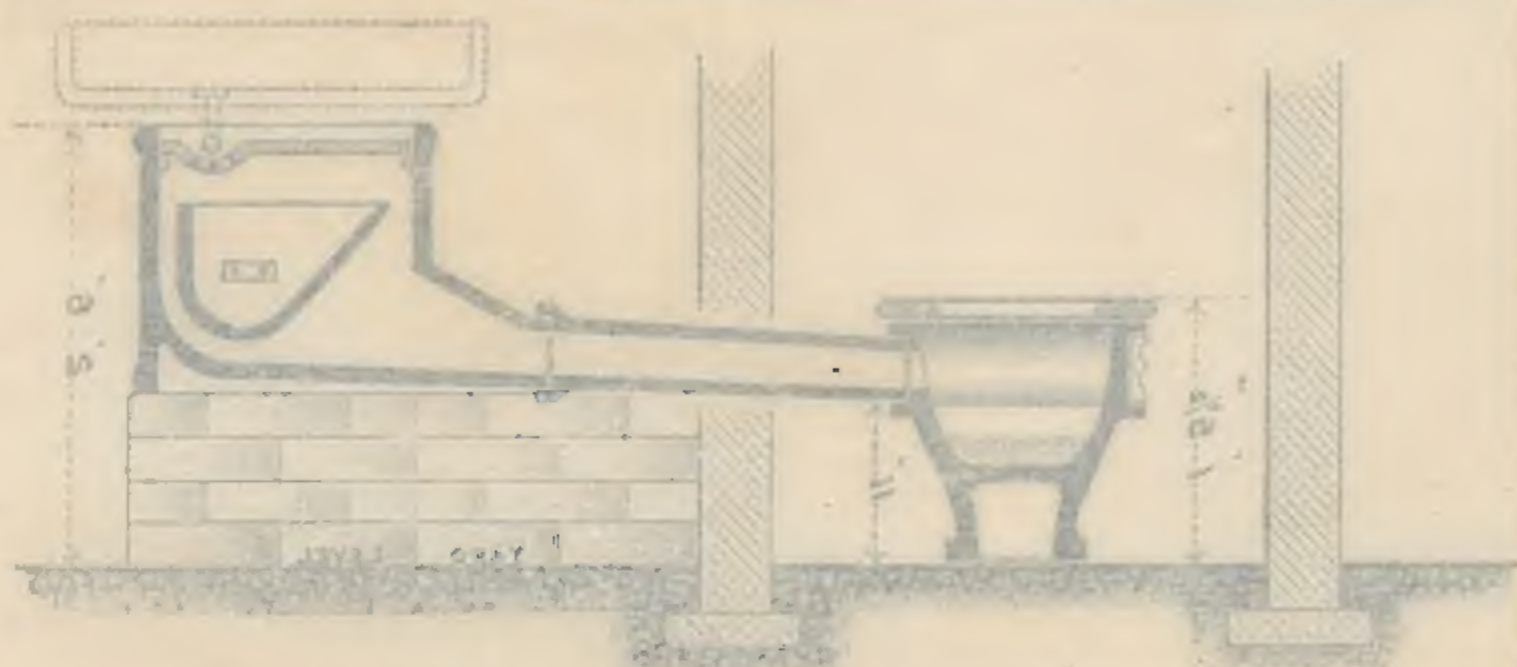
INSTRUCTIONS FOR FIXING.—The various parts should be set up loosely before being permanently fixed, so as to ensure proper fall between sink waste and closet.

The connecting pipe between flushing apparatus and pedestal may be fixed level if step between scullery floor and yard is less than 7 inches. All joints must be made water-tight with cement.

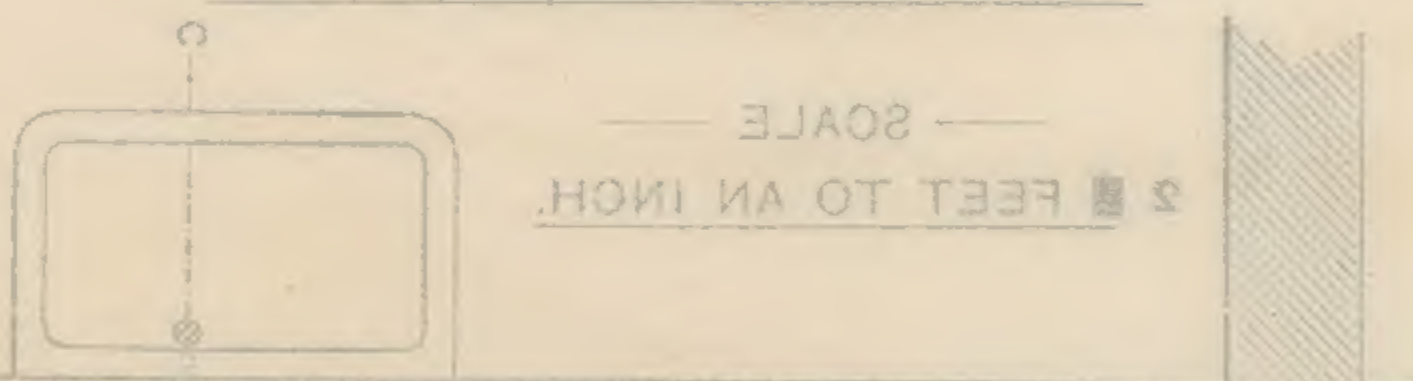
## PRICES on rails at Burnley:—

Closset, including Pedestal Basin, Stopper, Tipper, Automatic Tipper and Container in Salt-glazed Ware, with Iron perforated Cover for Container.	
Strong plain hinged seat	0 6 6
If seat is painted and varnished	0 1 0
If basin is in amber enameled ware inside and out	0 4 0
If basin is in amber enameled outside and white inside	0 7 0

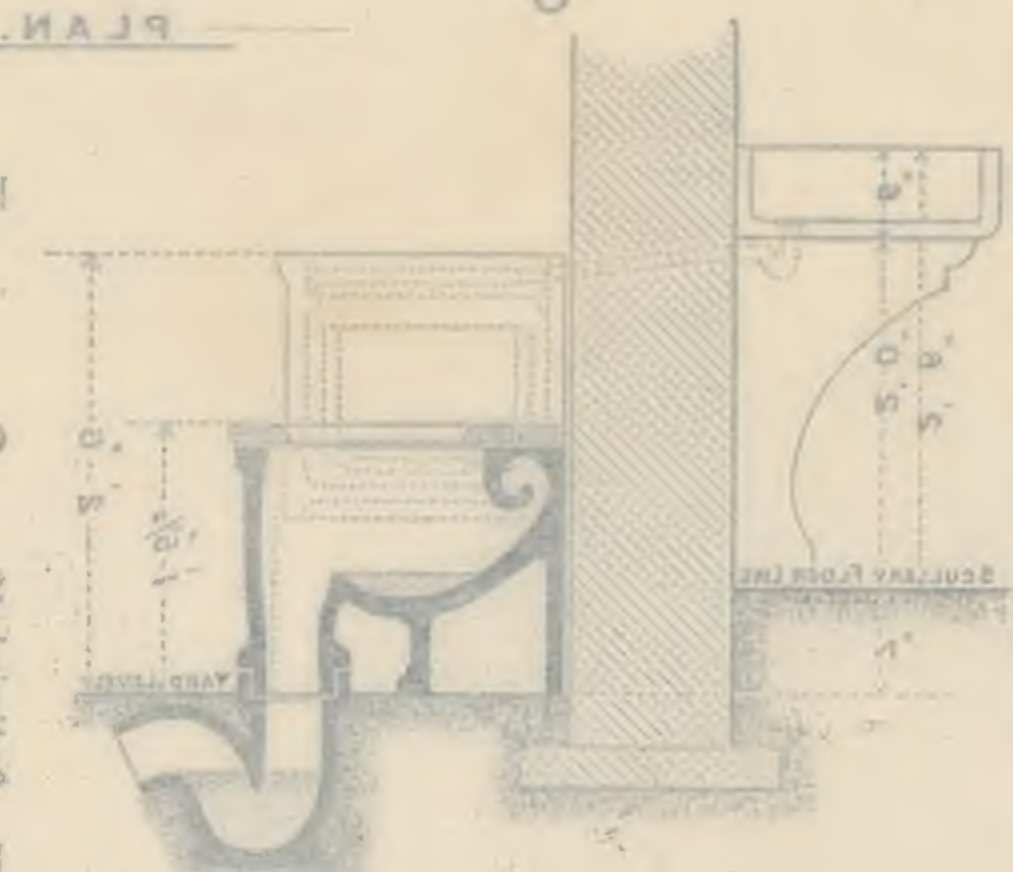
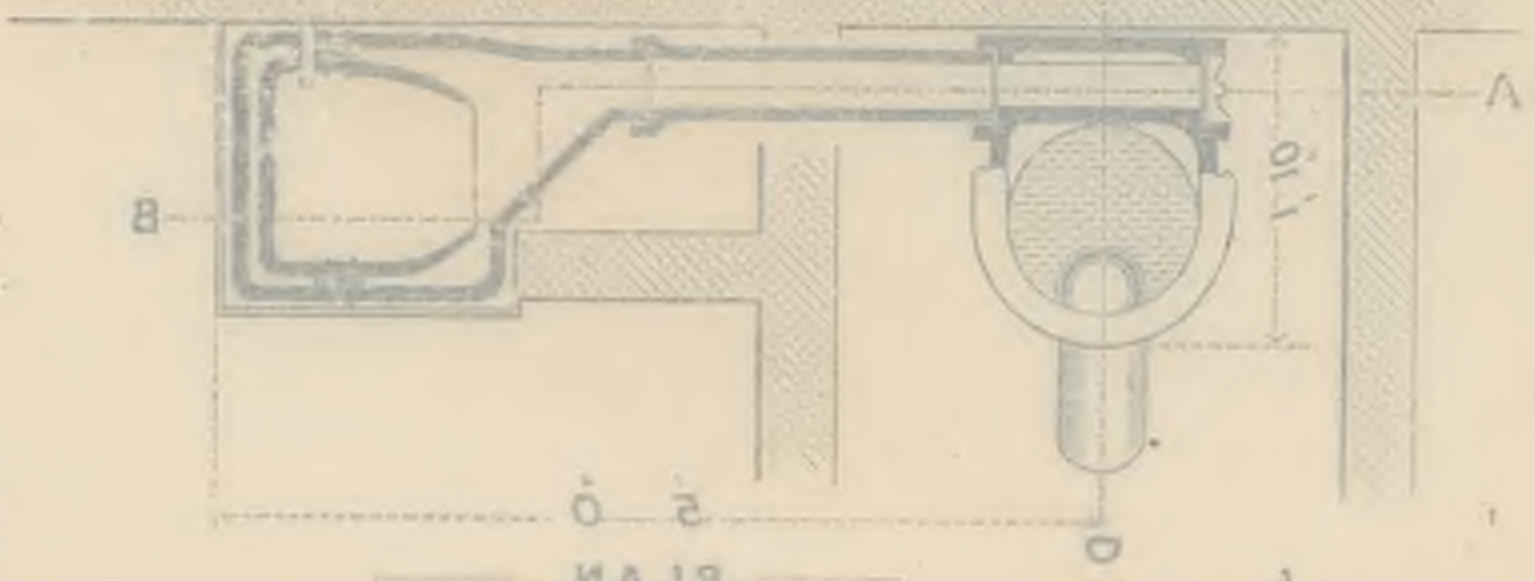
IN ORDERING state whether flushing apparatus will be on left hand as shown or on opposite hand.



LONGITUDINAL SECTION ON LINE A-B.




SCALE  
2 FEET TO AN INCH.



CROSS SECTION ON LINE C-D.


J. DUCKETT & SON, LTD. MANUFACTURERS OF SANITARY WARE, BURNLEY.





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JAS. BROADLEY,  
PRINTER AND MANUFACTURING STATIONER,  
"GUTENBERG" WORKS,  
CLAYTON-LE-MOORS, ACCRINGTON.





TELEGRAMS:  
Ducketts, Burnley.

\* 1898 \*

NATIONAL TELEPHONE:

OFFICES:  
Burnley, 76.

RESIDENCES:

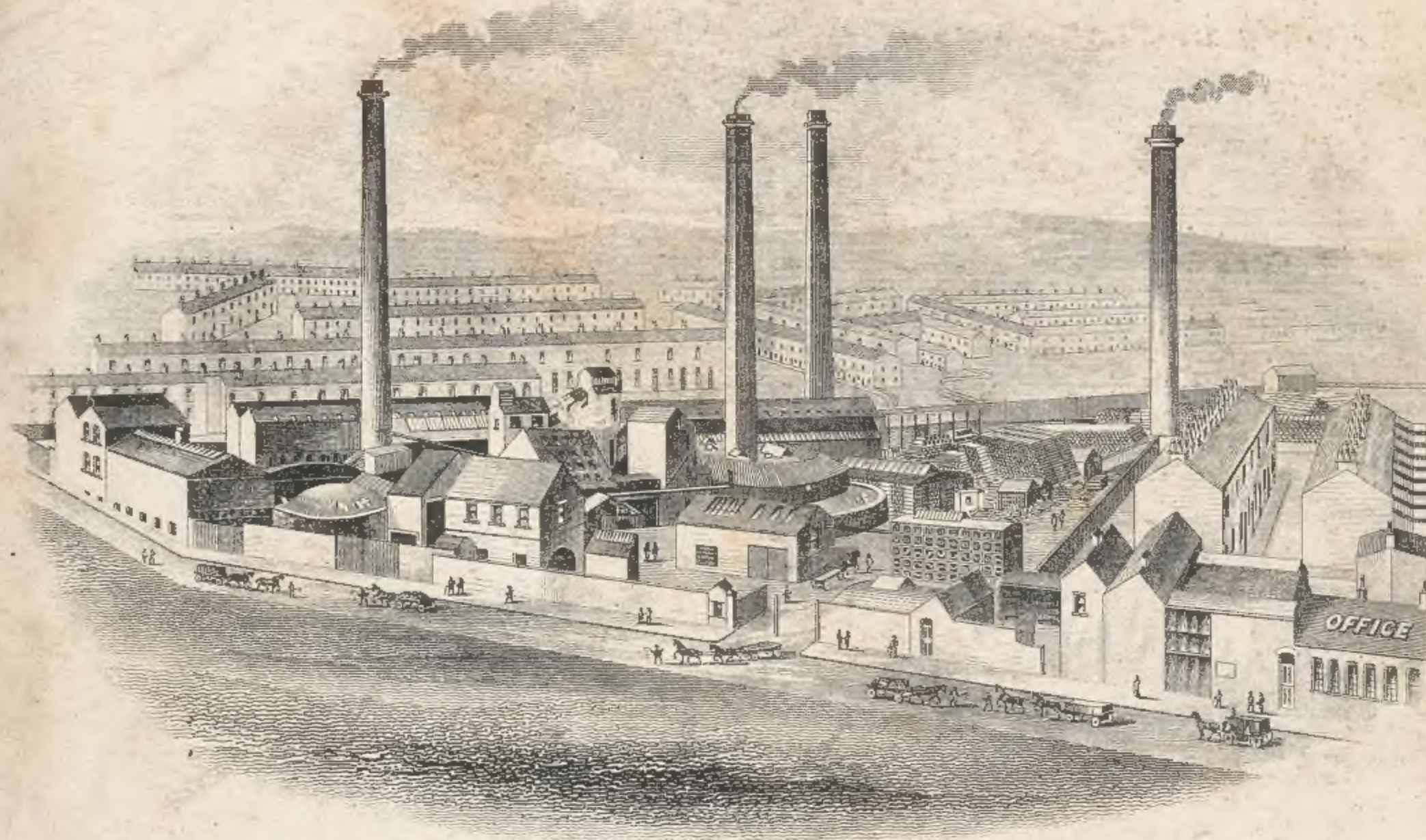
James Duckett - 117  
Alfred Duckett - 118  
F. S. Button - 333

Manchester  
Office:  
2977.

# DUCKETTS

## Sanitary Ware Works,

### BURNLEY.



#### Offices:

Head Office: Blannel Street, Burnley.

London Office: Hambro' Wharf, Upper Thames St., E.C.

Manchester Office: 3, Blackfriars Road, Salford.

#### Depôts:

Curzon Street, Burnley.

Hambro' Wharf, London.

3, Blackfriars Road, Salford.

Norton Street, Salford.

C L. Ry. Station, Chorlton-c-Hardy.

J DUCKETT & SON, LTD, Sanitary Ware Works,

BURNLEY, LANCASHIRE.

General Manager,  
F. S. BUTTON, M. INST. C.E.